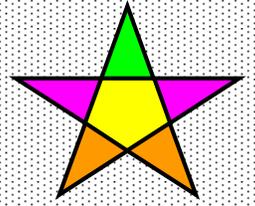# TEKSING TOWARD STAAR

MATHEMATICS

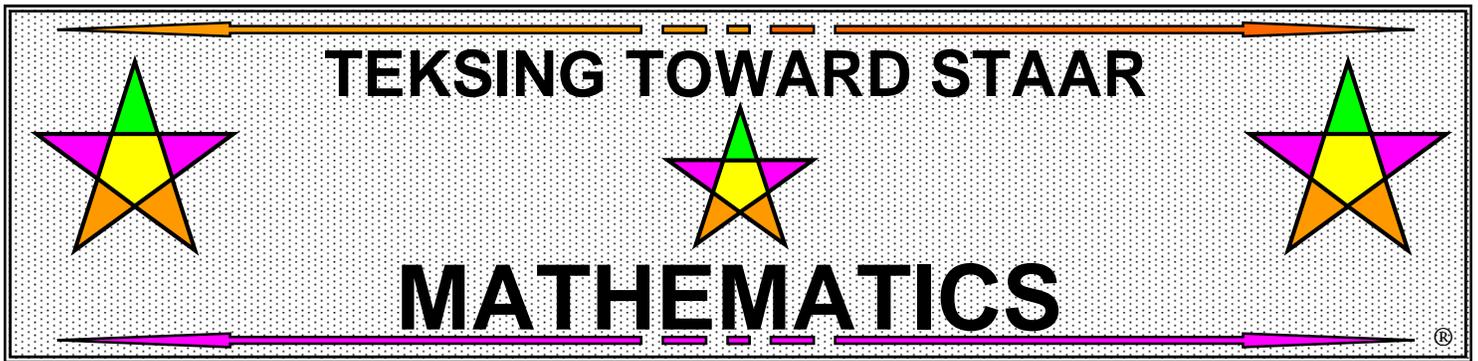# GRADE 5
STAAR Format Mini-Assessments and Periodic Assessments

TEKSING TOWARD STAAR

MATHEMATICS

OVERVIEW
Grade 5 Mini-Assessments and Periodic Assessments

MINI-ASSESSMENTS

The Mini-Assessments were created with all students in mind and provide teachers with 10-question assessments that address each TEKS in each STAAR Reporting Category with focus on the Process Standards TEKS. Each Mini-Assessment is correlated to a specific Category and TEKS. These assessments should not be utilized until after all instruction has been completed for the TEKS addressed in the assessment.

- The Mini-Assessments can be utilized at any time after instruction has occurred for the TEKS addressed in the assessment.
- Allow approximately 20 minutes for completion of each Mini-Assessment (the amount of time may vary for some assessments). No assistance should be given during this time.
- The Mini-Assessments should be completed by individual students, graded by the teacher and performance discussed by the teacher with individual students.

PERIODIC ASSESSMENTS

The Periodic Assessments were created with all students in mind and provide teachers with a 20-question assessment tool to periodically assess multi-TEKS. These assessments should not be utilized until after all instruction has been completed for all TEKS addressed in the assessment.

- The Periodic Assessments can be utilized at any time after instruction has occurred for all TEKS addressed in the assessment.
- Allow approximately 40 minutes for completion of each Periodic Assessment (the amount of time may vary for some assessments). No assistance should be given during this time.
- The Periodic Assessments should be completed by individual students, graded by the teacher and performance discussed by the teacher with individual students.

An answer key is provided for the Mini-Assessments and Periodic Assessments. Teachers should consider creation of a personalized Solutions Manual to become more familiar with the Revised TEKS and assessment of the Revised TEKS, as well as to formulate various solution strategies for each question. Teachers are encouraged to communicate with the author regarding discussion of any question in this document.

TEKSING TOWARD STAAR
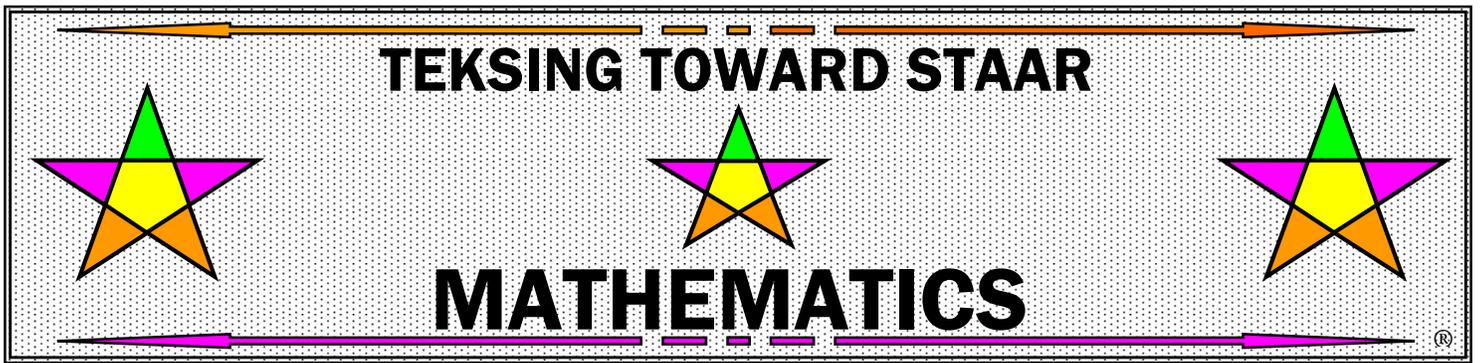
MATHEMATICS

GRADE 5
STAAR Format
Mini-Assessments

Organized by
TEKS Categories

TEKS Category 1 - Mathematical Process Standards

These student expectations will not be listed under a separate TEKS category.
Instead, they will be incorporated into questions across TEKS categories since
the application of mathematical process standards is part of each knowledge statement.

(5.1) Mathematical Process Standards
The student uses mathematical processes to acquire and demonstrate mathematical understanding.

STAAR Category	TEKS	STUDENT EXPECTATION	Number of Assessments
1-4	**5.1(A)**	apply mathematics to problems arising in everyday life, society, and the workplace	3
1-4	**5.1(B)**	use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution	3
1-4	**5.1(C)**	select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	3
1-4	**5.1(D)**	communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	3
1-4	**5.1(E)**	create and use representations to organize, record, and communicate mathematical ideas	3
1-4	**5.1(F)**	analyze mathematical relationships to connect and communicate mathematical ideas	3
1-4	**5.1(G)**	display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication	3

TEKS Category 2: Number and Operations

(5.2) Number and Operations
The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Supporting	5.2(A)	interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left	2
Readiness	5.2(B)	represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals	3
Supporting	5.2(C)	compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols >, <, or =	2

(5.3) Number and Operations
The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Supporting	5.3(A)	estimate to determine solutions to mathematical and real-world problems involving addition, subtraction, multiplication, or division	2
Supporting	5.3(B)	multiply with fluency a three-digit number by a two-digit number using the standard algorithm	2
Supporting	5.3(C)	solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm	2
Supporting	5.3(D)	represent multiplication of decimals with products to the hundredths using objects and pictorial models, including area models	2
Readiness	5.3(E)	solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers	3
Supporting	5.3(F)	represent quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using objects and pictorial models, including area models	2
Readiness	5.3(G)	solve for quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using strategies and algorithms, including the standard algorithm	3
Supporting	5.3(H)	represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models and properties of operations	2
Supporting	5.3(I)	represent and solve multiplication of a whole number and a fraction that refers to the same whole using objects and pictorial models, including area models	2
Supporting	5.3(J)	represent division of a unit fraction by a whole number and the division of a whole number by a unit fraction such as 1/3 ÷ 7 and 7 ÷ 1/3 using objects and pictorial models, including area models	2
Readiness	5.3(K)	add and subtract positive rational numbers fluently	3
Readiness	5.3(L)	divide whole numbers by unit fractions and unit fractions by whole numbers	3

TEKS Category 3: Algebraic Reasoning

(5.4) Algebraic Reasoning
The student applies mathematical process standards to develop concepts of expressions and equations.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Supporting	5.4(A)	Identify prime and composite numbers	2
Readiness	5.4(B)	represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity	3
Readiness	5.4(C)	generate a numerical pattern when given a rule in the form $y = ax$ or $y = x + a$ and graph	3
Supporting	5.4(D)	recognize the difference between additive and multiplicative numerical patterns given in a table or graph	2
Supporting	5.4(E)	describe the meaning of parentheses and brackets in a numeric expression	2
Readiness	5.4(F)	simplify numerical expressions that do not involve exponents, including up to two levels of grouping	3
Readiness	5.4(H)	represent and solve problems related to perimeter and/or area and related to volume	3

TEKS Category 4: Geometry and Measurement

(5.5) Geometry and Measurement
The student applies mathematical process standards to classify two-dimensional figures by attributes and properties.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Readiness	5.5(A)	classify two-dimensional figures in a hierarchy of sets and subsets using graphic organizers based on their attributes and properties	3

(5.6) Geometry and Measurement
The student applies mathematical process standards to solve problems involving angles less than or equal to 180 degrees.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Supporting	5.6(A)	recognize a cube with side length of one unit as a unit cube having one cubic unit of volume and the volume of a three-dimensional figure as the number of unit cubes (n cubic units) needed to fill it with no gaps or overlaps if possible	2
Supporting	5.6(B)	determine the volume of a rectangular prism with whole number side lengths in problems related to the number of layers times the number of unit cubes in the area of the base	2

(5.7) Geometry and Measurement
The student applies mathematical process standards to select appropriate customary and metric units, strategies, and tools to solve problems involving measurement.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Supporting	5.7(A)	solve problems by calculating conversions within a measurement system, customary or metric	2

(5.8) Geometry and Measurement
The student applies mathematical process standards to identify locations on a coordinate plane.

STAAR Standard	TEKS	STUDENT EXPECTATION	Number of Assessments
Supporting	5.8(A)	describe the key attributes of the coordinate plane, including perpendicular number lines (axes) where the intersection (origin) of the two lines coincides with zero on each number line and the given point (0, 0); the x-coordinate, the first number in an ordered pair, indicates movement parallel to the x-axis starting at the origin; and the y-coordinate, the second number, indicates movement parallel to the y-axis starting at the origin	2
Supporting	5.8(B)	describe the process for graphing ordered pairs of numbers in the first quadrant of the coordinate plane	2
Readiness	5.8(C)	graph in the first quadrant of the coordinate plane ordered pairs of numbers arising from mathematical and real-world problems, including those generated by number patterns or found in an input-output table.	3

GRADE 5 MINI-ASSESSMENTS

TEKS CATEGORY 1 - PROCESS STANDARDS

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	2	3	4	5	6	7	8	9	10
5.1A Mini-Assessment 1	B	F	A	H	C	J	B	J	A	F
5.1A Mini-Assessment 2	D	H	B	F	C	H	A	H	A	J
5.1A Mini-Assessment 3	D	J	D	J	A	H	D	F	A	F
5.1B Mini-Assessment 1	D	G	C	F	D	J	D	H	B	G
5.1B Mini-Assessment 2	D	G	D	F	C	H	B	H	D	H
5.1B Mini-Assessment 3	B	J	C	J	D	J	B	G	C	H
5.1C Mini-Assessment 1	D	H	D	J	D	J	C	H	D	G
5.1C Mini-Assessment 2	A	F	D	309	B	J	F	H	F	J
5.1C Mini-Assessment 3	B	H	C	H	C	J	C	G	A	F
5.1D Mini-Assessment 1	B	F	A	G	D	G	A	H	A	G
5.1D Mini-Assessment 2	A	H	D	G	30	J	C	9	B	H
5.1D Mini-Assessment 3	B	H	D	F	D	J	B	J	18	F
5.1E Mini-Assessment 1	A	G	C	J	D	G	D	F	A	F
5.1E Mini-Assessment 2	C	H	D	J	C	J	B	F	D	F
5.1E Mini-Assessment 3	D	G	D	F	D	H	B	J	B	H
5.1F Mini-Assessment 1	A	J	D	G	C	65	C	H	C	H
5.1F Mini-Assessment 2	C	J	D	J	36	J	D	G	A	J
5.1F Mini-Assessment 3	D	J	D	J	B	J	B	H	B	H
5.1G Mini-Assessment 1	C	H	D	0.36	C	J	C	H	C	G
5.1G Mini-Assessment 2	A	J	D	G	D	J	C	H	B	H
5.1G Mini-Assessment 3	B	G	A	H	B	G	C	J	A	H

GRADE 5 MINI-ASSESSMENTS

TEKS CATEGORY 2 - NUMBER AND OPERATIONS

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	2	3	4	5	6	7	8	9	10
5.2A Mini-Assessment 1	C	F	A	H	A	G	C	J	C	J
5.2A Mini-Assessment 2	B	J	C	F	A	H	D	J	A	F
5.2B Mini-Assessment 1	A	H	A	H	A	H	B	J	D	H
5.2B Mini-Assessment 2	D	J	C	F	D	H	C	H	C	G
5.2B Mini-Assessment 3	D	H	B	D	G	J	A	H	B	F
5.2C Mini-Assessment 1	D	F	C	J	B	F	B	G	C	F
5.2C Mini-Assessment 2	C	F	D	F	B	J	C	G	B	J
5.3A Mini-Assessment 1	D	G	B	J	A	H	A	G	B	J
5.3A Mini-Assessment 2	C	H	B	H	A	J	C	G	B	F
5.3B Mini-Assessment 1	A	J	C	G	D	J	D	H	C	G
5.3B Mini-Assessment 2	B	G	D	H	D	H	D	H	C	H
5.3C Mini-Assessment 1	64	J	C	F	28	F	C	G	C	G
5.3C Mini-Assessment 2	B	G	68	H	D	G	D	H	C	F
5.3D Mini-Assessment 1	D	12	D	F	B	H	C	H	D	H
5.3D Mini-Assessment 2	C	J	D	125	C	G	B	G	D	J
5.3E Mini-Assessment 1	C	F	C	G	D	G	C	G	D	J
5.3E Mini-Assessment 2	B	J	D	G	C	G	A	H	D	J
5.3E Mini-Assessment 3	B	F	D	G	D	J	B	F	D	J
5.3F Mini-Assessment 1	C	G	D	J	B	H	B	G	C	J
5.3F Mini-Assessment 2	D	G	A	G	C	H	A	J	C	H
5.3G Mini-Assessment 1	A	J	C	F	A	H	C	J	D	J
5.3G Mini-Assessment 2	A	H	B	F	A	F	C	H	D	J
5.3G Mini-Assessment 3	B	J	C	G	A	G	C	G	D	F
5.3H Mini-Assessment 1	B	G	D	F	B	G	A	G	D	F
5.3H Mini-Assessment 2	A	H	B	H	B	G	A	H	B	J
5.3I Mini-Assessment 1	B	G	D	J	B	J	C	J	A	F
5.3I Mini-Assessment 2	B	H	C	J	C	J	C	G	D	H
5.3J Mini-Assessment 1	C	J	D	J	A	H	B	F	C	J
5.3J Mini-Assessment 2	C	H	D	J	D	J	A	H	B	F
5.3K Mini-Assessment 1	C	J	D	J	D	H	147	F	D	0.05
5.3K Mini-Assessment 2	D	F	A	J	D	J	658	J	B	8.89
5.3K Mini-Assessment 3	D	J	C	H	6.19	F	8.99	H	A	H
5.3L Mini-Assessment 1	C	J	D	G	D	24	A	40	D	H
5.3L Mini-Assessment 2	D	20	C	54	B	10	A	J	D	12
5.3L Mini-Assessment 3	A	40	C	36	B	J	D	J	24	F

GRADE 5 MINI-ASSESSMENTS

TEKS CATEGORY 3 - ALGEBRAIC REASONING

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
5.4A Mini-Assessment 1	D	H	D	G	D	F	D	J	D	J
5.4A Mini-Assessment 2	D	G	B	H	C	G	A	H	A	H
5.4B Mini-Assessment 1	D	G	C	H	D	H	D	F	A	G
5.4B Mini-Assessment 2	C	J	D	F	D	H	D	F	C	G
5.4B Mini-Assessment 3	A	J	B	H	A	H	A	F	C	20
5.4C Mini-Assessment 1	B	G	C	F	C	F	C	J	C	14
5.4C Mini-Assessment 2	D	H	C	G	B	J	A	G	B	H
5.4C Mini-Assessment 3	D	H	C	H	C	F	D	J	D	H
5.4D Mini-Assessment 1	D	J	B	J	A	H	A	G	B	J
5.4D Mini-Assessment 2	D	G	C	J	C	G	A	F	B	F
5.4E Mini-Assessment 1	A	G	D	F	D	G	C	J	D	F
5.4E Mini-Assessment 2	D	G	A	J	A	H	A	H	C	H
5.4F Mini-Assessment 1	B	75	B	J	D	H	B	G	D	F
5.4F Mini-Assessment 2	B	J	A	J	C	12	A	H	A	20
5.4F Mini-Assessment 3	D	8	A	J	D	24	D	H	A	G
5.4H Mini-Assessment 1	D	H	D	H	C	J	D	J	C	H
5.4H Mini-Assessment 2	C	J	57	G	D	36	D	H	C	F
5.4H Mini-Assessment 3	B	H	A	F	D	H	D	H	C	G

TEKS CATEGORY 4 - GEOMETRY AND MEASUREMENT

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	2	3	4	5	6	7	8	9	10
5.5A Mini-Assessment 1	C	F	B	J	C	F	A	G	C	J
5.5A Mini-Assessment 2	D	H	B	G	90	G	B	F	C	H
5.5A Mini-Assessment 3	C	G	A	F	A	G	A	H	A	F
5.6A Mini-Assessment 1	C	G	B	16	A	18	A	H	D	H
5.6A Mini-Assessment 2	D	G	B	G	A	G	C	J	C	H
5.6B Mini-Assessment 1	A	F	B	G	C	J	C	G	C	J
5.6B Mini-Assessment 2	D	G	D	G	B	J	A	G	C	G
5.7A Mini-Assessment 1	0.01	J	A	J	D	J	C	G	C	G
5.7A Mini-Assessment 2	B	J	A	H	160	G	D	H	6	F
5.8A Mini-Assessment 1	B	F	B	J	B	J	B	H	D	G
5.8A Mini-Assessment 2	C	J	D	G	B	H	C	J	C	J
5.8B Mini-Assessment 1	D	H	B	J	A	G	B	G	B	G
5.8B Mini-Assessment 2	D	H	B	J	D	J	A	F	C	G
5.8C Mini-Assessment 1	C	H	56	J	C	H	A	G	B	G
5.8C Mini-Assessment 2	D	J	D	C	C	B	D	H	D	45
5.8C Mini-Assessment 3	D	J	A	F	C	H	C	J	B	F

TEKS CATEGORY 5 - DATA ANALYSIS

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	2	3	4	5	6	7	8	9	10
5.9A Mini-Assessment 1	A	G	B	J	A	H	A	F	C	J
5.9A Mini-Assessment 2	B	F	D	F	D	J	D	H	D	J
5.9B Mini-Assessment 1	C	G	C	G	B	H	C	J	C	H
5.9B Mini-Assessment 2	A	J	A	J	C	J	B	G	C	G
5.9C Mini-Assessment 1	D	F	D	F	D	G	73	H	D	H
5.9C Mini-Assessment 2	B	J	A	F	C	J	C	J	C	H
5.9C Mini-Assessment 3	11	H	A	F	C	J	D	G	B	A

TEKS CATEGORY 6 - PERSONAL FINANCIAL LITERACY

TEKS Assessed Mini-Assessment Number	Question Number and Answer									
	1	2	3	4	5	6	7	8	9	10
5.10A Mini-Assessment 1	C	G	C	J	D	H	D	H	A	J
5.10A Mini-Assessment 2	D	F	A	J	D	G	D	G	C	G
5.10B Mini-Assessment 1	C	F	B	G	C	J	B	G	A	J
5.10B Mini-Assessment 2	D	J	C	J	A	D	C	G	B	F
5.10E Mini-Assessment 1	B	H	A	F	B	H	A	F	B	G
5.10E Mini-Assessment 2	A	G	C	J	A	G	C	J	D	H
5.10F Mini-Assessment 1	C	F	C	G	461	F	C	G	D	J
5.10F Mini-Assessment 2	C	341	B	H	D	H	D	H	C	F

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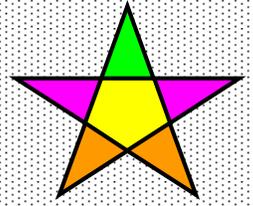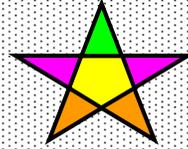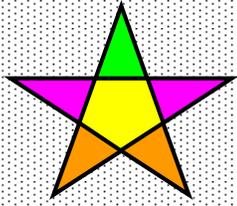
MATHEMATICS

GRADE 5
Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 1

Process Standards

NAME_____   DATE_____   SCORE ____/10

5.1A Mini-Assessment 1

5.3H

1. Karim made a model to show $\frac{5}{6} - \frac{1}{2}$. Which model represents $\frac{5}{6} - \frac{1}{2}$?

A

1

| $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ |

| $\frac{1}{2}$ | $\frac{1}{6}$ |

C

1

| $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ |

| $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ |

B

1

| $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ |

| $\frac{1}{2}$ | $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{12}$ |

D

1

| $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ | $\frac{1}{6}$ |

| $\frac{1}{2}$ | $\frac{1}{6}$ $\frac{1}{6}$ |
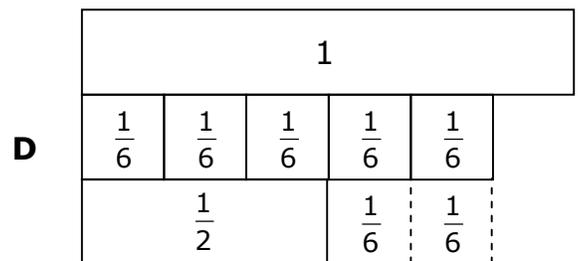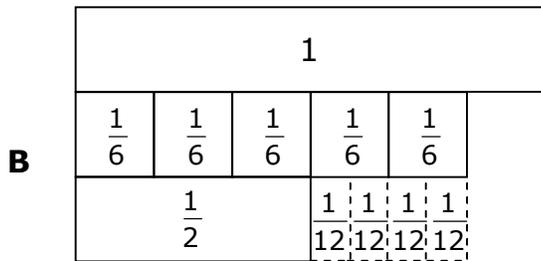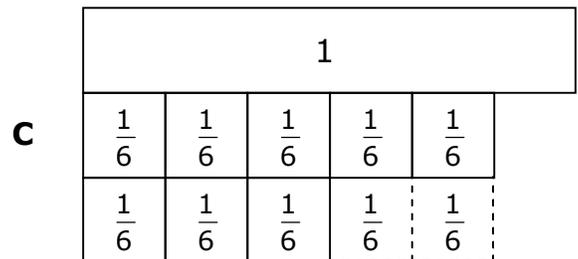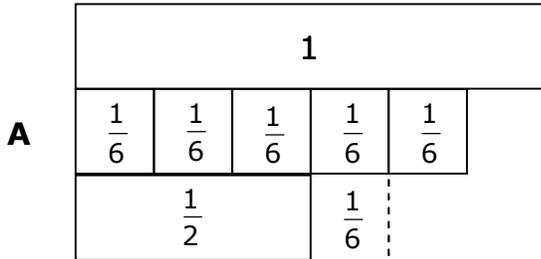
5.3I

2. Tallon has decided to sell $\frac{3}{8}$ of his model airplanes in a garage sale. He has 16 model airplanes. Which diagram will help Talon find the number of model airplanes he will sell?

F

H

G

J
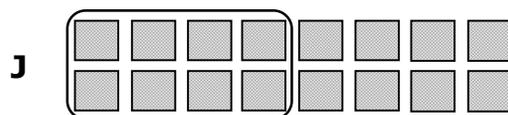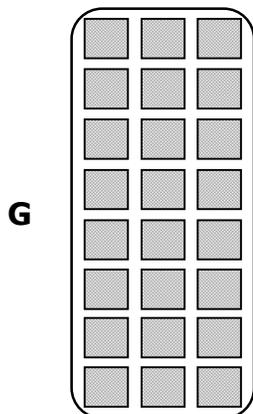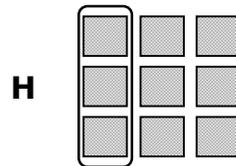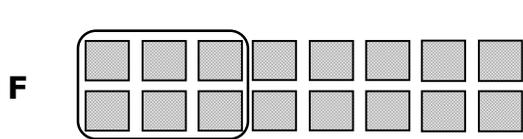
5.3J

3. Josh drew a model to help him solve a division problem.
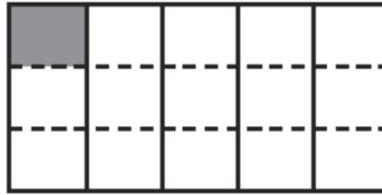
Which division expression does his model represent?

A $\dfrac{1}{5} \div 3$

B $\dfrac{1}{2} \div 5$

C $5 \div \dfrac{1}{2}$

D $\dfrac{1}{3} \div 2$

5.3K

4. At a gas station in Centerville, 19 gallons of gas cost $22.75. The same amount of gas at a station in Huntsville cost $26.30. How much more did this amount of gas cost in Huntsville than in Centerville?

F $4.65

G $4.45

H $3.55

J $3.25

5.3L

5. Mrs. Garza divided one half of an apple cobbler equally among her son and 3 daughters. What fraction of the whole cobbler did she give each child?

A $\dfrac{1}{4}$

B $\dfrac{1}{10}$

C $\dfrac{1}{8}$

D $\dfrac{1}{6}$

5.4A

6. Which number is a prime factor of 56?

    F 26

    G 8

    H 14

    J 7

5.4B

7. Kendra hiked 4 times as far as Damian. Together, Kendra and Damian hiked 15 miles. The equation $4n + n = 15$ can be used to find n, the number of miles Damian hiked. How many miles did Damian hike?

    A 4

    B 3

    C 5

    D 11

5.4C

8. The rule $b = 8r$ represents that each city resident, r, who has a city library card may borrow 8 books, b, per week. Which number pair represents the maximum number of books a group of 4 residents with library cards can check out in a single visit?

    F (8, 32)

    G (4, 12)

    H (8, 16)

    J (4, 32)

5.4D

9. The pattern in the graph represents the relationship between input, j, and output, k.
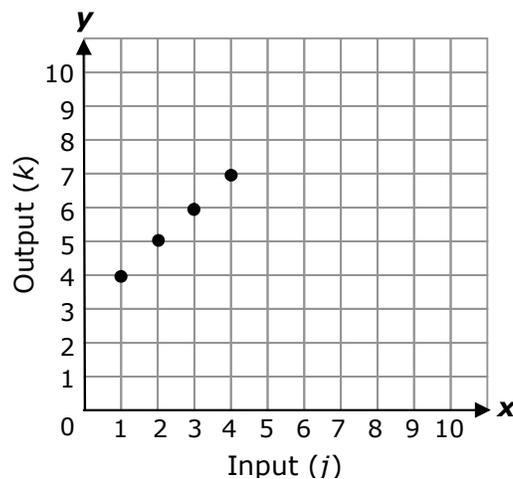
Which rule describes the pattern on the graph?

A $k = j + 3$

B $j = 3k$

C $k = 3j$

D $j = k + 3$

5.4E

10. Lucinda wrote the expression $14 + (2 \times 9)$ to represent the number of books she packed in boxes. Which situation can be represented by the expression Lucinda wrote?

F   Lucinda packed a box with 14 books. Then she packed 2 boxes with 9 books in each box.

G   Lucinda packed a box with 14 books. Then she packed a box with 2 books and another box with 9 books.

H   Lucinda packed a box with 14 books. Then she packed the box with 2 books and 9 more.

J   Lucinda packed 9 boxes with 2 books in each box. Then she packed 9 boxes with 14 books in each box.

NAME_____ DATE_____ SCORE ____/10

5.1A Mini-Assessment 2

5.4F

1. An expression is shown below.

$$4 \times (5 - 3) + 24 + 6 \div 3$$

Which operation is performed first to simplify the expression?

A Multiplication

B Division

C Addition

D Subtraction

5.4H

2. The polygon shown below has a perimeter of 108 units.
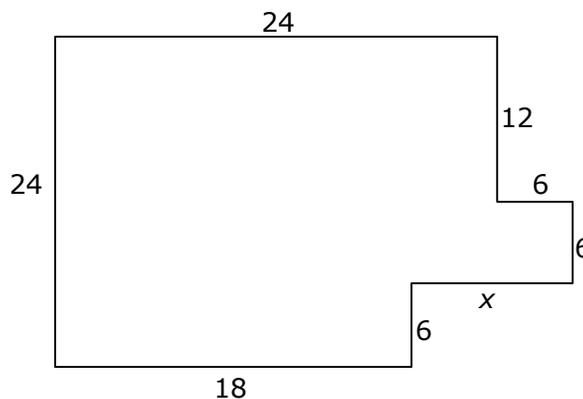
Which is the length of x?

F 6 units

G 10 units

H 12 units

J 18 units

5.5A

3. Which of the following is **NOT** associated with a rectangle?

A Vertex

B Circumference

C Area

D Perimeter

5.5A

4. A polygon is shown below.
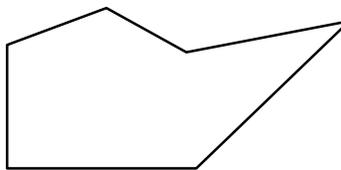
Which is a classification for the polygon?

F Hexagon

G Nonagon

H Quadrilateral

J Not here

5.5A

5. The figure below is a square.

Which can **NOT** be used to describe a square?

A Rectangle

B Quadrilateral

C Trapezoid

D Rhombus

5.6A

6. A model of a rectangular prism made of 1-yard cubes is shown below.
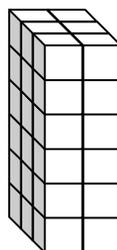
What is the volume of the rectangular prism?

F 6 cubic yards

G 18 cubic yards

H 36 cubic yards

J 96 cubic yards

5.6B

7. Alberto wants to make a rectangular prism using 1-inch cubes. He has decided to use exactly 48 cubes. How many different bases can he make if his rectangular prisms are all 4 inches tall?

    A 3

    B 12

    C 1

    D 8

5.7A

8. Rhonda has 20 meters of string. How many decimeters of string does Rhonda have?

    F 20 decimeters

    G 2 decimeters

    H 200 decimeters

    J 2,000 decimeters

5.7A

9. Rita poured 18 cups of chicken broth into a large pot to make a soup. Teresa poured more broth into her pot than Rita. Which could be the amount of broth Tina poured into her pot?

    A 5 quarts

    B 100 fluid ounces

    C 8 pints

    D 1 gallon

5.7A

10. Kristen lives 3 kilometers from the city library, Brittney lives 30,000 meters from the city library, and Carmen lives 30,000 centimeters from the city library. Which statement is true?

    F Kristen lives the greatest distance from the city library.

    G Brittney lives the least distance from the city library.

    H Carmen lives a greater distance from the city library than Kristen.

    J Brittney lives the greatest distance from the city library.

NAME_____   DATE_____   SCORE ____/10

5.1A Mini-Assessment 3

5.8A

1. Four points on a coordinate plane represent the location of areas in a fun park.
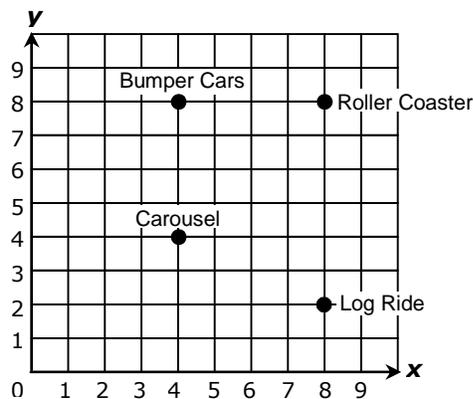
Which area is located 4 units right and 8 units up from the point of origin?

A Roller Coaster

B Log Ride

C Carousel

D Bumper Cars

5.8B

2. Miranda plotted a point to represent the ordered pair (4, 6). Which describes the process she used to graph this point on a coordinate plane?

F She located the point 4 units up from the origin and 6 units to the right.

G She located the point 4 units to the right of the origin and 6 units to the left.

H She located the point 6 units to the right of the origin and 4 units down.

J She located the point 4 units to the right of the origin and 6 units up.

5.8C

3. Dawn planted a bean seed in a very large jar so that she could record the root growth in centimeters. She made a graph to represent the day number, d, since she put the seed in the jar and the length of the longest root on each day, r. The first root she could see was on day 4. She measured the length of the root and plotted the ordered pair (4, 2) on the graph. On day 7 the length of the root measured 18 centimeters. On day 12 the length of the root had increased by 25 more centimeters. Which ordered pairs should Dawn plot on her graph for day 7 and day 12?

A (18, 7) and (43, 12)

B (3, 18) and (5, 25)

C (18, 3) and (25, 5)

D (7, 18) and (12, 43)

5.9A

4. Bianca made a bar graph to display the data in the table below.

Color Tiles in a Bag

Color	Number of Tiles
Red	24
Green	8
Yellow	32
Blue	16

Which statement is **NOT** true about a bar graph that represents the data in the table?

F The bar representing blue tiles is twice as long as the bar representing the green tiles.

G The bar representing blue tiles is half the length of the bar representing the yellow tiles.

H The bar representing red tiles is three times as long the bar representing the green tiles.

J If the bar representing red tiles and the bar representing green tiles are combined, the new bar is not as long as the bar representing the yellow tiles.

5.9B

5. The table below shows data for distances Jamie traveled during a bicycle race and the amount of water she drank during those distances.

Water Consumption During Bicycle Race

Distance Traveled (mi)	8	4	2	10	8	6
Amount of Water (cups)	16	10	6	20	14	10

Which is the best scale to use for both the *x*-axis and the *y*-axis in a scatterplot created to represent the data?

A 2

B 10

C 7

D 20

5.9C

6. The dot plot represents the test scores for a fifth grade science class.

Science Test Scores
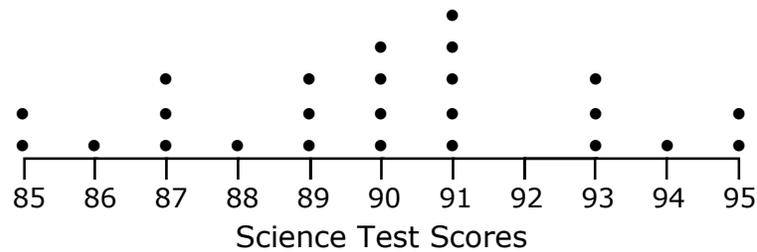
What is the range of scores on the science test?

F 5

G 15

H 10

J 3

5.10A

7. Which tax is the portion of the value of items that is paid to a city or state government?

A Payroll tax

B Sales tax

C Income tax

D Property tax

5.10B

8. Ernest worked for a concrete company last weekend. On Saturday, his gross income was $350 and his net income was $307.05. On Sunday, his gross income was $280 and his net income was $246.35. What amount did Ernest pay in payroll tax last weekend?

F $76.60

G $103.00

H $137.30

J $70.00

5.10E

9. Jen made a budget for the month of August.

August Budget

Income	Expense
Allowance: $44	Art Club Dues: $8
Babysitting: $20	Savings: $25
	School Supplies: $38

Which change can Jen make to balance her August budget?

A Increase the babysitting income to $27.

B Decrease the amount saved to $20.

C Increase the amount saved to $30.

D Decrease the allowance amount to $37.

5.10F

10. Elias is saving to buy a skateboard that costs $49.75.

Elias's March Budget

Income	Expense
Allowance: $20	Bicycle club dues: $10
Yard work: $15	Baseball tickets: $35
Garage sale: $24	Donation: $10
Computer lessons: $16	Savings: $20

How soon will Elias be able to buy the skateboard if he continues to save the same amount each month?

F In 3 months

G In 2 weeks

H In 2 months

J In 3 weeks

TEKSING TOWARD STAAR
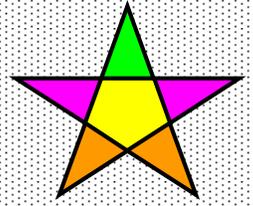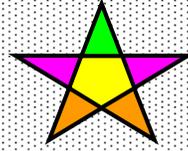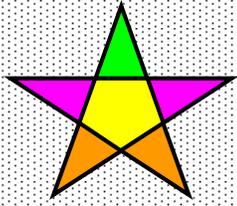
MATHEMATICS

GRADE 5
Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 2

Number and Operations

NAME_____ DATE_____ SCORE ____/10

5.2A Mini-Assessment 1

1. Which of the following shows 37.9 written in expanded notation?

   A 30 + 7 + 0.09

   B 37 + 0.9

   C 30 + 7 + 0.9

   D 3 + 0.7 + 0.09

2. Angie lives 10 times as far from the city park as Lucinda. Lucinda lives 0.6 mile from the park. Stacy lives $\frac{1}{10}$ as far from the park as Angie. Gabriel lives $\frac{1}{10}$ as far from the park as Stacy. How far from the park does Gabriel live?

   F 0.06 mile

   G 6 miles

   H 0.6 mile

   J 60 miles

3. Which statement correctly compares 0.002 to 0.02?

   A 0.002 is $\frac{1}{10}$ of 0.02

   B 0.002 is 10 times as much as 0.02

   C 0.002 is $\frac{1}{100}$ of 0.02

   D 0.002 is 100 times as much as 0.02

4. The medium sausage kolache at Czeck Bakery costs 2.345 kolhorts. The cost of a large sausage kolache at Czeck Bakery costs 4.012 kolhorts. What is the value of the digit 1 in 4.012 kolhorts?

   F $\frac{1}{10}$ of a kolhort

   G 1 kolhort

   H $\frac{1}{100}$ of a kolhort

   J 2 kolhorts

5. What is the value of the digit 6 in the number 75.68?

A $\left(6 \times \dfrac{1}{10}\right)$

B (6×1)

C $\left(6 \times \dfrac{1}{1,000}\right)$

D $\left(6 \times \dfrac{1}{100}\right)$

---

6. Which of the following shows the expanded notation for 60.27?

   F 6 + 2 + 0.7

   G 60 + 0.2 + 0.07

   H 6 + 0.2 + 0.07

   J 60 + 2 + 0.7

---

7. Paul has a roll of copper wire 9.578 meters long. He cut off exactly one tenth of a meter from the roll. Then he cut off two hundredths of a meter. How long is the roll of copper wire now?

   A 9.278 meters

   B 9.378 meters

   C 9.458 meters

   D 9.577 meters

---

8. Which digit is in the thousandths place in the number 35.847?

   F 5

   G 8

   H 4

   J 7

---

9. The weekly rainfalls for four cities are listed in the table below.

Weekly Rainfalls

City	Rainfall (inches)
DeSoto	0.007
Houston	7.0
Harlingen	0.07
Meridian	0.7

Which city had seven hundredths of an inch of rainfall?

A DeSoto

B Houston

C Harlingen

D Meridian

---

10. What does the 8 in the number 90.083 represent?

F (8 x 100)

G (8 x 10)

H (8 x 0.1)

J (8 x 0.01)

NAME_____ DATE_____ SCORE ____/10

5.2A Mini-Assessment 2

1. Jackson measured the distance each of four miniature cars rolled on a track. Which distance measurement that has a 6 in the thousandths place represents the shortest distance rolled?

   A 0.861 meter

   B 0.336 meter

   C 0.816 meter

   D 0.365 meter

2. A bird egg has a mass of about 0.006 kilogram. What is the value of the digit 6 in this number?

   F 6 tenths

   G 6 hundredths

   H 6 ones

   J 6 thousandths

3. Which shows 2.378 written in expanded form?

   A 2 + 0.378

   B 2.3 + 2.07 + 2.008

   C 2 + 0.3 + 0.07 + 0.008

   D 0.2 + 0.3 + 0.07 + 0.007

4. Which shows 0.236 written in expanded form?

   F 0.2 + 0.03 + 0.006

   G 2.2 + 0.3 + 0.06

   H 0.2 + 0.03 + 0.06

   J 0.2 + 0.003 + 0.006

5. What is the value of the digit 4 in 0.004?

   A 4 thousandths

   B 4 ones

   C 4 hundredths

   D 4 tenths

6. Which expression uses the expanded form of the factors to write 53 × 0.27?

   F (50 + 3) × (0.2 + 0.7)

   G (5 + 3) × (0.2 + 0.07)

   H (50 + 3) × (0.2 + 0.07)

   J (5 + 3) × (0.2 + 0.7)

7. A field mouse has a mass of about 28.4 grams. What is the value of 4 in 28.4?

   A 4 thousandths

   B 4 tens

   C 4 hundredths

   D 4 tenths

8. Which shows 0.45 written in expanded form?

   F 0.04 + 0.3

   G 4 + 0.5

   H 0.04 + 0.05

   J 0.4 + 0.05

9. A dime has a mass of about 0.002 kilograms. What is the value of the digit 2 in 0.002?

   A 2 thousandths

   B 2 hundreds

   C 2 hundredths

   D 2 tenths

10. Hilda measured the length of her necklace chain. The chain measured 40.54 centimeters. Which expression represents 40.54 in expanded form?

   F $(4 \times 10) + \left(5 \times \frac{1}{10}\right) + \left(4 \times \frac{1}{100}\right)$

   G $(4 \times 1) + \left(5 \times \frac{1}{10}\right) + \left(4 \times \frac{1}{100}\right)$

   H $(4 \times 10) + (5 \times 1) + \left(4 \times \frac{1}{100}\right)$

   J $(4 \times 10) + (5 \times 1) + \left(4 \times \frac{1}{10}\right)$

TEKSING TOWARD STAAR

MATHEMATICS
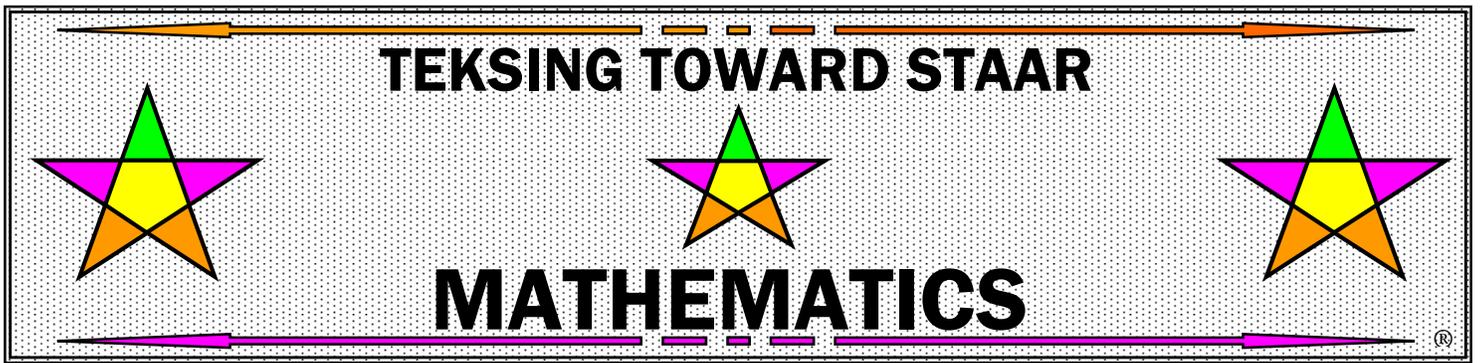
GRADE 5
Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 3

Algebraic Reasoning

NAME_____   DATE_____   SCORE ____/10

5.4H Mini-Assessment 1

1. A stop sign is an octagon. Each side is 12 inches long. What is the perimeter of a stop sign?

   A 20 in.

   B 48 in.

   C 72 in.

   D 96 in.

2. The drawing below represents a rectangular dry erase board with a frame. Use a ruler on the Reference Materials to measure the dimensions of the drawing to the nearest inch.
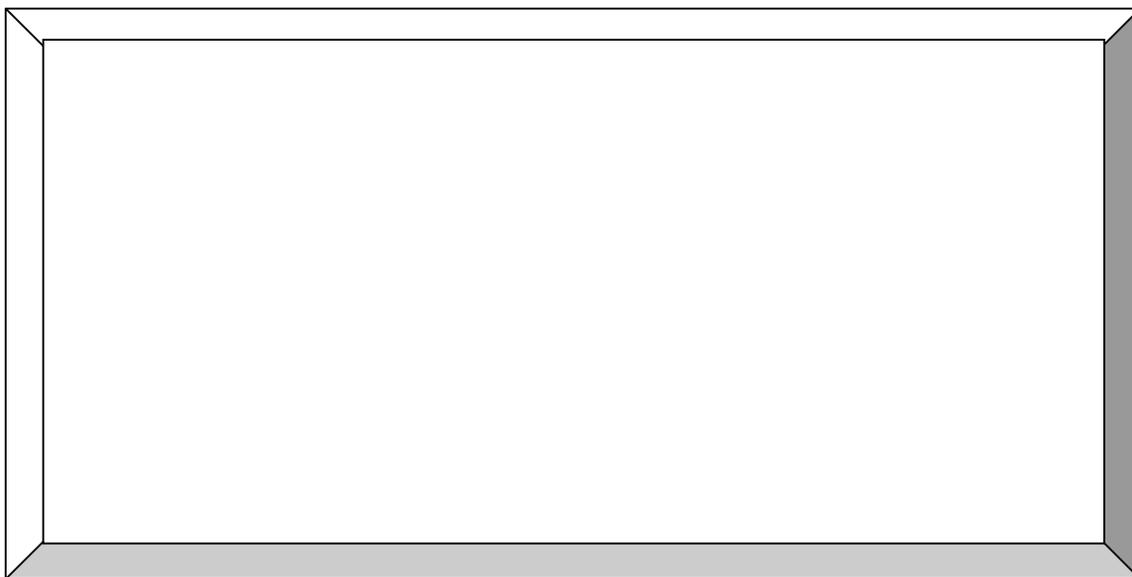
   If 1 inch in the drawing equals 2 feet, which of the following is closest to the area of the dry erase board with a frame?

   F 36 square feet

   G 81 square feet

   H 18 square feet

   J 72 square feet

3. The picture below shows the dimensions of a cardboard box shaped like a rectangular prism.

12 cm

10 cm

14 cm
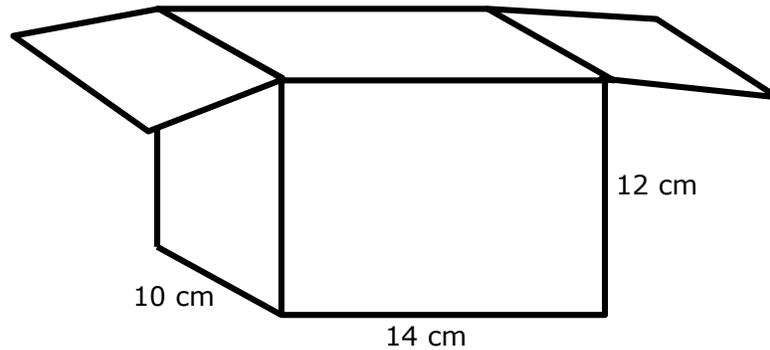
What is the volume of the box?

A 120 cubic centimeters

B 1,440 cubic centimeters

C 140 cubic centimeters

D 1,680 cubic centimeters

---

4. Mr. Meyer has a rectangular tulip garden that is 3 feet wide and 7 feet long. If he makes the garden 5 feet wide and keeps the same length, what will be the new perimeter of his tulip garden?

F 25 ft

G 24 ft

H 16 ft

J 12 ft

---

5. A rectangular driveway measures 36 feet by 12 feet. What is the area of the driveway?

A 48 square feet

B 96 square feet

C 432 square feet

D 422 square feet

---

6. The model below shows the dimensions of a fish aquarium in a school library. The fish aquarium is shaped like a rectangular prism.

12 in.

10 in.

24 in.
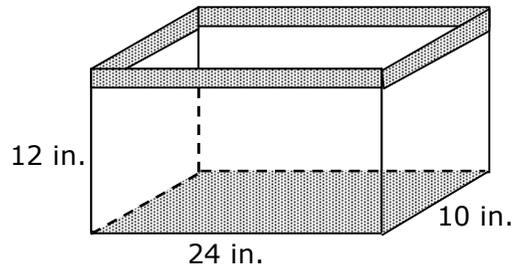
What is the volume of the fish aquarium?

F 408 cubic inches

G 3,456 cubic inches

H 288 cubic inches

J 2,880 cubic inches

---

7. Mrs. Gomez made a lace border for a rectangular pillow. She used 60 centimeters of lace for each width and 48 centimeters of lace for each length. How much lace did she use to border the pillow?

A 96 cm

B 108 cm

C 120 cm

D 216 cm

---

8. Irma arranged 5 congruent rectangles to make the figure shown below. The length of each rectangle is 4 centimeters and the width of each rectangle is 6 centimeters.

6 cm

4 cm

4 cm

6 cm
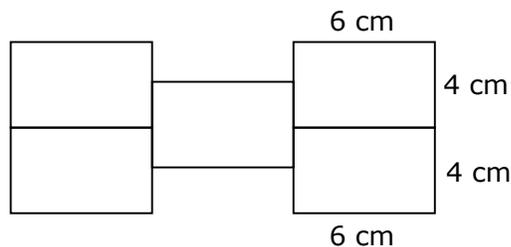
What is the area of the figure?

F 20 square cm

G 100 square cm

H 96 square cm

J 120 square cm

9. A box of whole wheat crackers has the dimensions shown below.
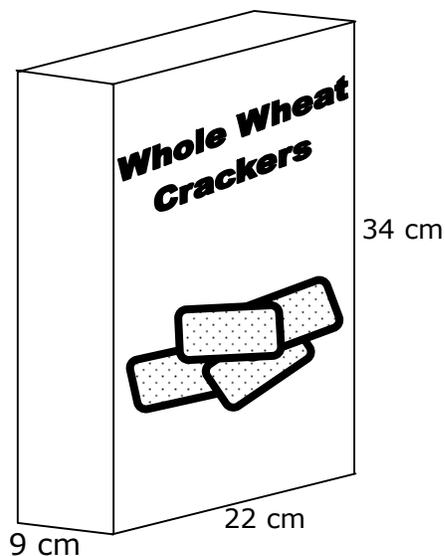
Which expression can be used to find the volume of the cracker box in cubic centimeters?

A 22 × 9 + 34

B 22 + 9 + 34

C 22 × 9 × 34

D 22 + 9 × 34

10. Natalie is adding 1.8 feet to two of the sides of an 8 feet by 6 feet rectangular flowerbed as shown below.
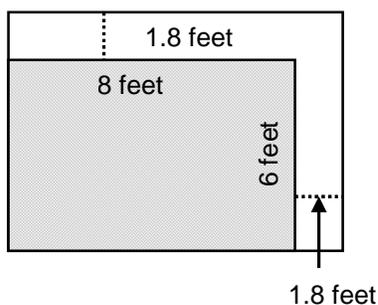
How much will the perimeter of the flowerbed increase when 1.8 feet is added to two of the sides?

F 35.2 feet

G 28 feet

H 7.2 feet

J Not Here

5.4H Mini-Assessment 2

1. Maurice has a piece of wire he shaped into a rectangle with dimensions of 8 inches and 12 inches. He reshaped the wire into a square. What is the length of each side of the square?

   A 8.5 in.

   B 9 in.

   C 10 in.

   D 11 in.

_____

2. The lengths of the dimensions of a platform for a band conductor at a concert are 4 meters.

4 m

4 m
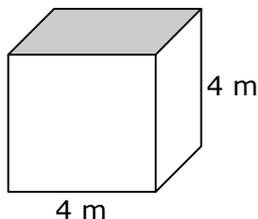
   What is the volume of the platform?

   F 12 cubic meters

   G 16 cubic meters

   H 48 cubic meters

   J 64 cubic meters

3. Jay is laying bricks around the edge of a rectangular patio. The patio is 15 feet long and 8.5 feet wide. Each brick is 10 inches long.
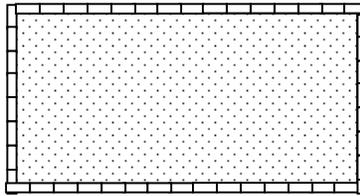
What is the minimum number of bricks he needs to edge the patio?

Record your answer and fill in the bubbles on the grid. Be sure to use the correct place value.

---

4. Jamie arranged 6 congruent squares to make the figure shown below. The length of the sides of each square is 7 centimeters.

7 cm
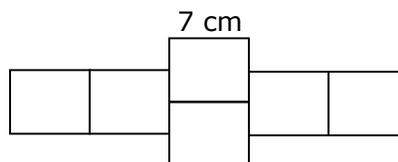
What is the area of the figure?

F 84 square cm

G 294 square cm

H 168 square cm

J 245 square cm

5. Which prism has a volume of 120 cubic units?

A   7 units   3 units   15 units

C   7 units   5 units   10 units

B   5 units   3 units   10 units

D   6 units   4 units   5 units

---
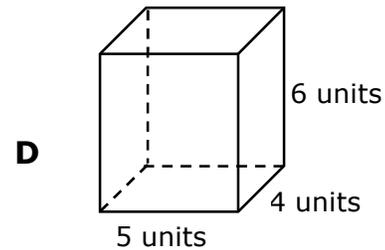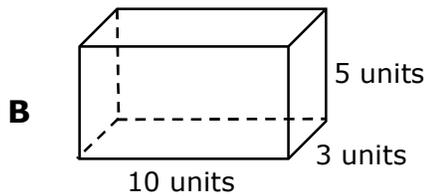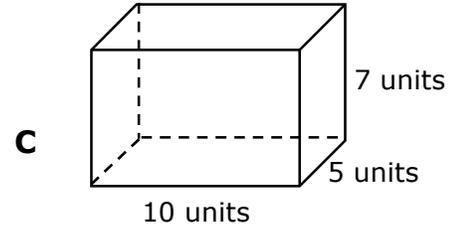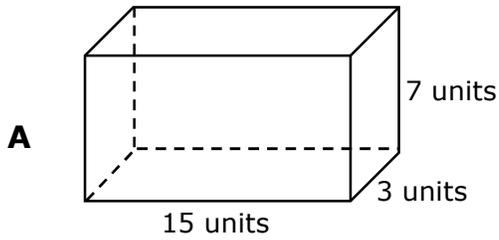
6. Sylvia is sewing blanket binding on both short ends of a rectangular stadium blanket. The perimeter of the blanket is 8 yards. The length of the blanket is 2.5 yards.
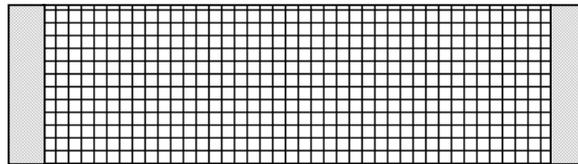
How many inches of blanket binding will Sylvia need?

Record your answer and fill in the bubbles on the grid. Be sure to use the correct place value.

7. The drawing below is a plan for a family room and bedroom addition for a house.
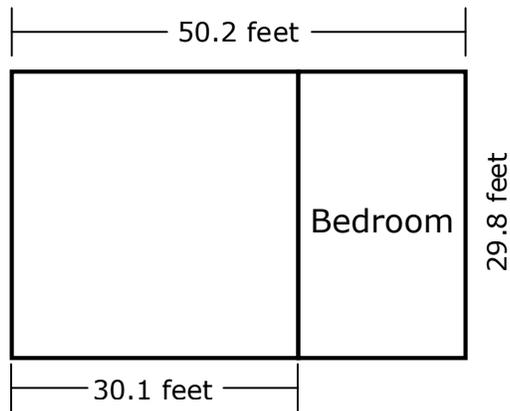
Which is a reasonable estimate for the area of the bedroom?

A 250 square feet

B 350 square feet

C 450 square feet

D 600 square feet

8. A shipping box is shown below.
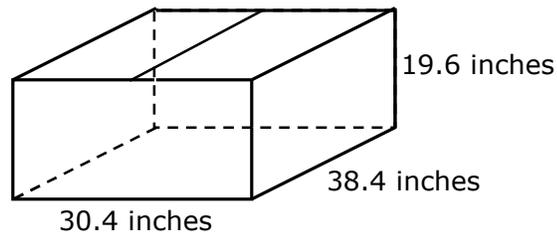
Which is a reasonable estimate for the volume of the shipping box?

F 90 cubic inches

G 2,400 cubic inches

H 24,000 cubic inches

J 30,000 cubic inches

9. The figure below is a scale drawing of a design on a gym wall. Use a ruler on the

   Reference Materials to measure the dimensions of the figure to the nearest $\frac{1}{4}$ inch.
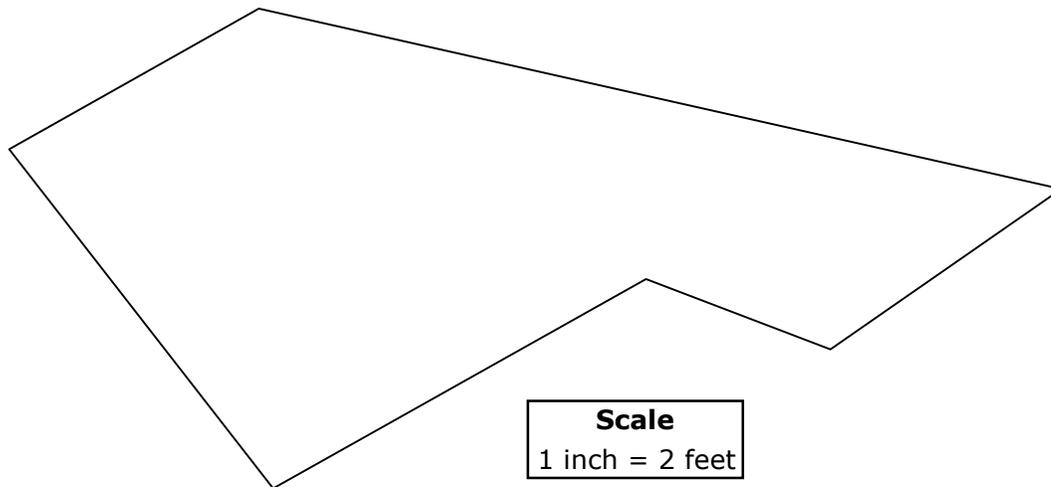
   Scale
   1 inch = 2 feet

   Each inch on the scale drawing represents 2 feet of the actual design on the gym wall. Which of the following is closest to the perimeter of the actual design on the gym wall?

   A 22 ft

   B 12 ft

   C 24 ft

   D 11 ft

---

10. There is an error in the calculations used to find the total area of the figure shown below. The figure is composed of a rectangle and a square.

    12 cm
    8 cm
    16 cm
    4 cm
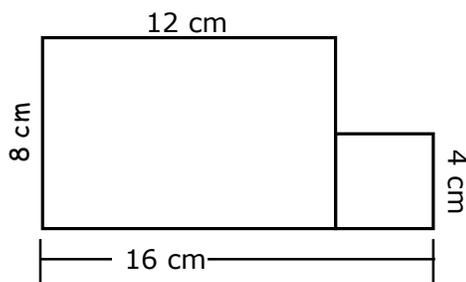
    Area = $(12 \times 8) + (8 \times 4)$

    = 96 + 32

    = 128

    Which best describes the error in the calculation used to find the total area of the figure?

    F The error is the length used for the side of the square.

    G The error is the sum of the area of the rectangle and the area of the square.

    H The error is the product of the length and width of the rectangle.

    J Not here

NAME_____ DATE_____ SCORE ____/10

5.4H Mini-Assessment 3

1. A rectangle has a perimeter of 36 inches and a width of 10 inches. What is the length of the rectangle?

   A 6 in.

   B 8 in.

   C 9 in.

   D 26 in.

---

2. Jerrard stores his snorkeling equipment in a cube-shaped box.

   3 ft
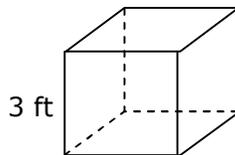
   Which equation can he use to find the volume of the box?

   F $V = 3 \times 3$
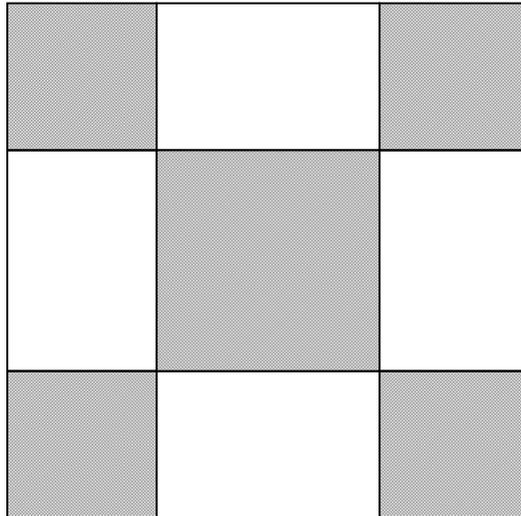
   G $V = 3 + 3 + 3$

   H $V = 3 \times 3 \times 3$

   J $V = 9 + 3$

---

3. Mrs. King had an L-shaped counter built in her new kitchen.

   2.5 ft

   7.5 ft

   2.5 ft

   6 ft
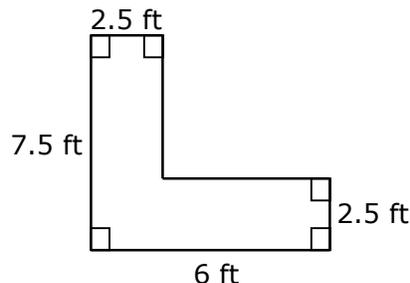
   She has decided to add trim along the edges of the top of the counter. How much trim does she need?

   A 22 ft

   B 24 ft

   C 27 ft

   D Not Here

4. Use a ruler on the Reference Materials to measure the dimensions of the figure below to the nearest centimeter.

Which measurement is closest to the total area of the shaded rectangles in the figure?

F 25 square centimeters

G 44 square centimeters

H 16 square centimeters

J Not here

5. Workers pack 4 containers of 3 golf balls into boxes at a golf ball factory. The boxes are rectangular prisms with a height of 2 inches, a width of 5 inches, and a length of 7 inches. The boxes are packed into a crate that holds 68 of the boxes.

GORDO's
Golf Balls

What is the minimum volume of a crate?

A 70 cubic inches

B 2,380 cubic inches

C 680 cubic inches

D 4,760 cubic inches

6. Jacob had a piece of construction paper that measured 10 inches by 8.5 inches. He folded the piece of paper to form 4 congruent rectangles as shown below.
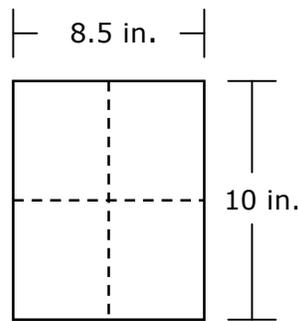
What is the perimeter of each of the smaller rectangles that were formed when he folded the construction paper?

F 4.25 inches

G 9.25 inches

H 18.5 inches

J 21.25 inches

7. Louisa created a pattern using square tiles. The area of each tile is 1 square unit. The diagram represents the first four steps of her pattern.

Step 1   **Step 2**   **Step 3**   **Step 4**
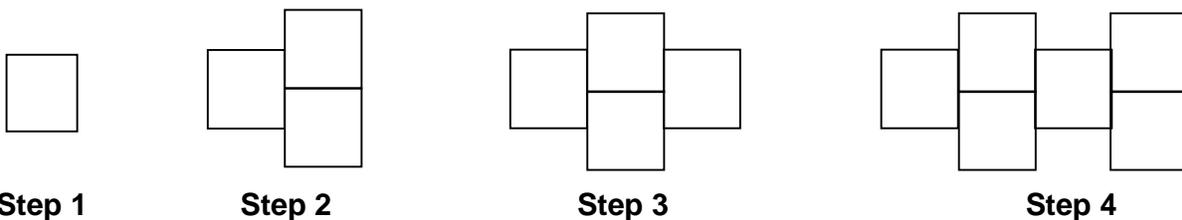
What is the area of the tiles in Step 5 and the area of the tiles in Step 6?

A 7 square units and 8 square units

B 8 square units and 9 square units

C 8 square units and 10 square units

D 7 square units and 9 square units

8. The object represented below is made of cubes that have 1-inch edges.
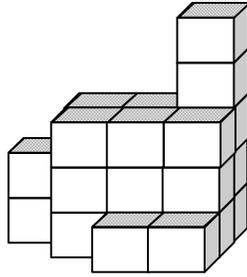
Which expression can be used to find the volume of the object?

F $24 \times (1 + 1 + 1)$

G $31 \times (1 \times 1 \times 1)$

**H** $24 \times (1 \times 1 \times 1)$

J $31 \times (1 + 1 + 1)$

---

9. Ryan had a piece of wire that he shaped into a rectangle with dimensions of 6 inches and 14 inches. He reshaped the wire into a different rectangle. Which could be the dimensions of his new rectangle?

A His new rectangle is 8 inches long and 11 inches wide.

B His new rectangle is 8.54 inches long and 9.5 inches wide.

C His new rectangle is 7 inches long and 13 inches wide.

D His new rectangle is 20 inches long and 1 inch wide.

---

10. Mr. and Mrs. Wilson are building a rectangular storage shed. The floor of the shed will measure $7\frac{3}{4}$ feet wide by $5\frac{1}{4}$ feet long. Which is a reasonable estimate for the area of the floor of the shed?

F 35 square feet

G 40 square feet

H 45 square feet

J 50 square feet

TEKSING TOWARD STAAR
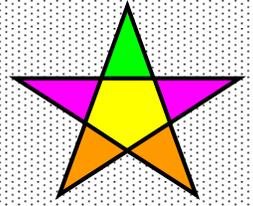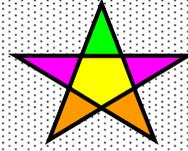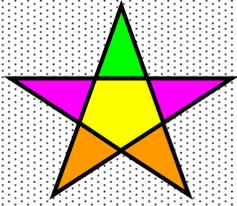
MATHEMATICS

GRADE 5
Mini-Assessments
STAAR Format
TEKS Categories

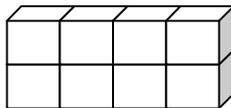# TEKS CATEGORY 4
Geometry
and
Measurement

NAME_____   DATE_____   SCORE ____/10

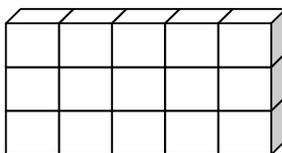## 5.6A Mini-Assessment 1

1. Lucas built a three-dimensional figure using 1-centimeter cubes.

   What is the volume of the figure?

   A 4 cubic centimeters

   B 2 cubic centimeters

   C 8 cubic centimeters

   D 16 cubic centimeters

___

2. Marianne built a rectangular prism using 1-inch cubes.

   What is the volume of the prism?

   F 9 cubic inches

   G 15 cubic inches

   H 30 cubic inches

   J 16 cubic inches

___

3. Claude built two three-dimensional figures using 1-centimeter cubes.
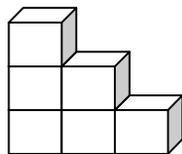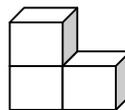
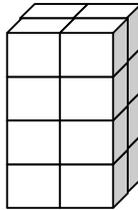   Figure 1   Figure 2

   How much greater is the volume of Figure 1 than the volume of Figure 2?

   A 6 cubic centimeters

   B 3 cubic centimeters

   C 12 cubic centimeters

   D 9 cubic centimeters

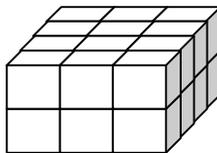4. Fernando built a three-dimensional figure using 1-inch cubes.

What is the volume of the figure in cubic inches?

Record your answer and fill in the bubbles on the grid. Be sure to use the correct place value.

---

5. Miranda made a rectangular prism using 1-centimeter cubes.
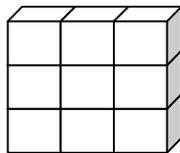

What is the volume of the prism?

   A 24 cubic centimeters

   B 20 cubic centimeters

   C 27 cubic centimeters

   D 12 cubic centimeters

6. A shipping box is filled with bakery cake boxes. Each cake box has a volume of 1 cubic foot. The shipping box is 3 feet high. The bottom layer of the shipping box has 6 cake boxes. What is the volume of the shipping box?

   F 24 cubic feet

   G 9 cubic feet

   H 18 cubic feet
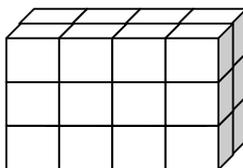
   J 10 cubic feet

7. Kimi made a prism using 1-centimeter cubes.

   What is the volume of the prism?

   A 9 cubic centimeters

   B 3 cubic centimeters

   C 18 cubic centimeters
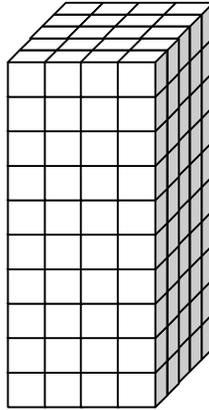
   D 6 cubic centimeters

8. Mishka built a rectangular prism using 1-inch cubes.

   What is the volume of the rectangular prism?

   F 22 cubic inches

   G 12 cubic inches

   H 24 cubic inches
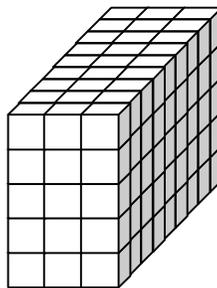
   J 11 cubic inches

9. A model of a rectangular prism made of 1-inch cubes is shown below.

What is the volume of the rectangular prism?

A 20 cubic inches

B 40 cubic inches

C 150 cubic inches

D 200 cubic inches

---

10. A model of a rectangular prism made of 1-meter cubes is shown below.

What is the volume of the rectangular prism?

F 15 cubic meters

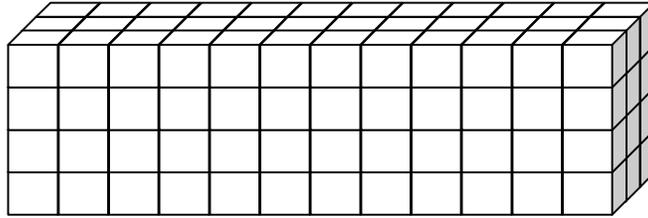**G** 27 cubic meters

H 135 cubic meters

J 162 cubic meters
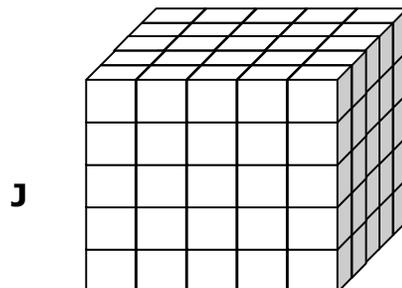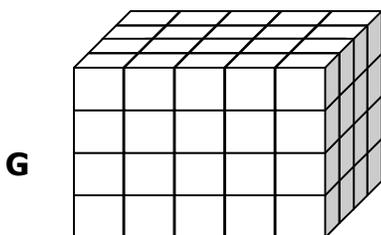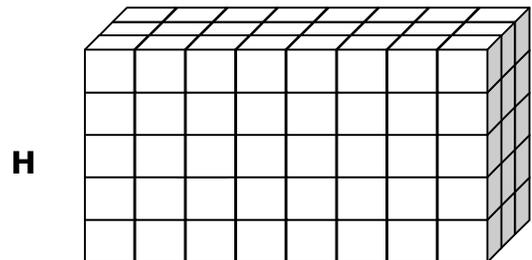
NAME_____ DATE_____ SCORE ___/10

5.6A Mini-Assessment 2

1. The model below is made of 1-centimeter cubes.

What is the volume of the model?

A 12 cubic centimeters

B 48 cubic centimeters

C 84 cubic centimeters

D 144 cubic centimeters

---

2. These figures were made using 1-unit cubes. Which figure has a volume of 80 cubic units?

F

H

G

J
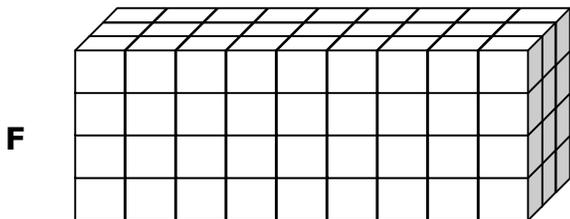
3. These models were made using 1-centimeter cubes. Which model has a volume of 32 cubic centimeters?

A

C

B

D
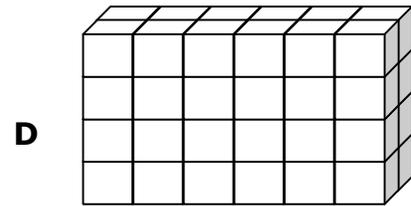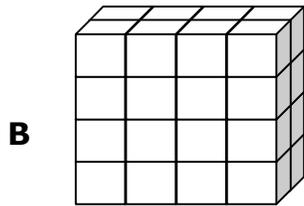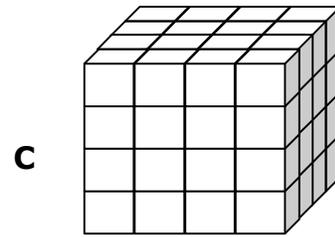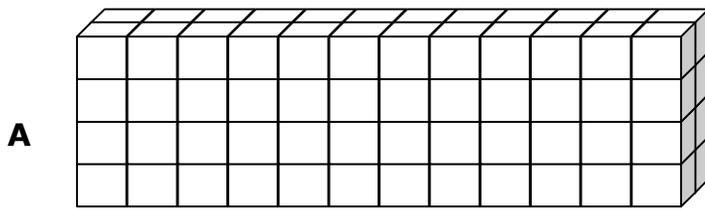
4. The model below represents the volume of a storage shed that was built at Melissa's house.
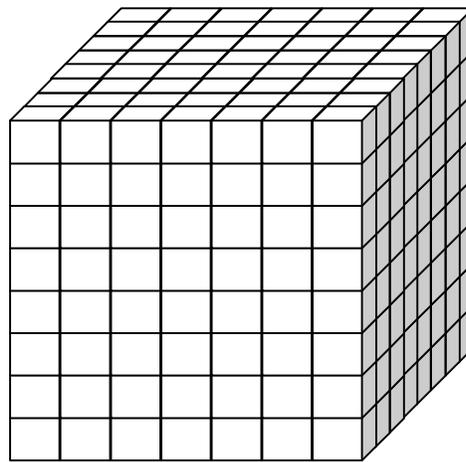
Each ☐ = 1 cubic foot

What is the volume of the storage shed?

F 512 cubic feet

G 448 cubic feet

H 392 cubic feet

J 343 cubic feet

5. The picture below represents a box that is filled with 1-inch cubes.
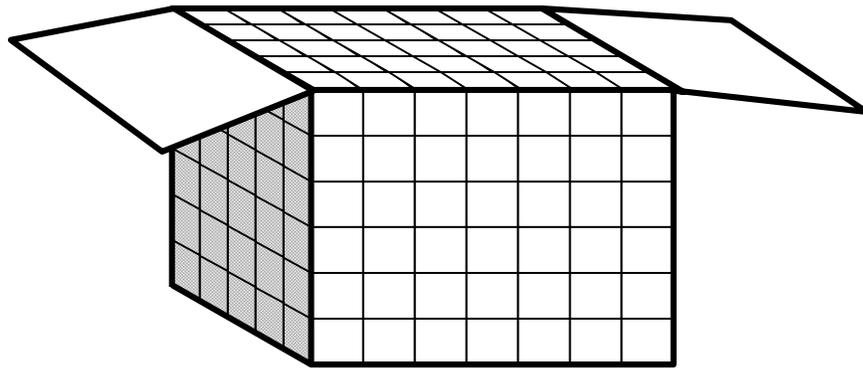
What is the volume of the box?

  A 210 cubic inches

  B 245 cubic inches

  C 107 cubic inches

  D 77 cubic inches

6. The model below represents the volume of a new swimming pool built in Kristen's back yard.
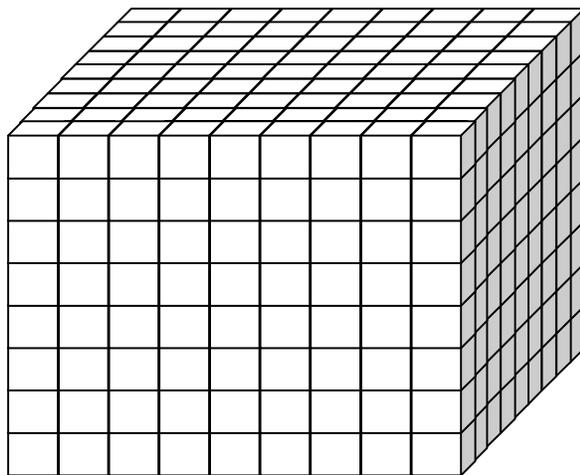
Each ☐ = 1 cubic meter

What is the volume of the pool?

  F 729 cubic meters

  G 648 cubic meters

  H 512 cubic meters

  J 576 cubic meters

7. Lea used 1-inch cubes to build a rectangular prism as shown below.
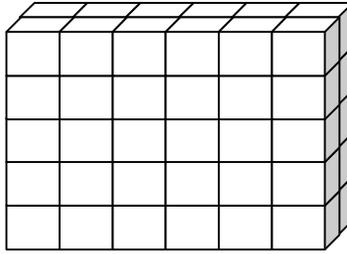
Which equation can Lea use to find the volume of the prism?

A $V = 6 + 2 + 5$

B $V = 6 \times 2$

C $V = 6 \times 2 \times 5$

D $V = 8 \times 5$

8. Kemisha made a prism using 1-inch cubes as shown below.
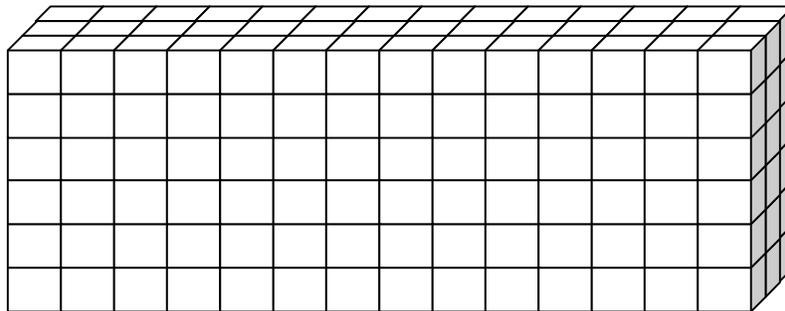
Which equation can be used to find the volume of the prism?

F $V = 14 + 3 + 6$

G $V = (2 \times 14) + (2 \times 3)$

H $V = 42 + 6$

J $V = 42 \times 6$

9. The model below shows the dimensions of a box shaped like a rectangular prism.

9 inches
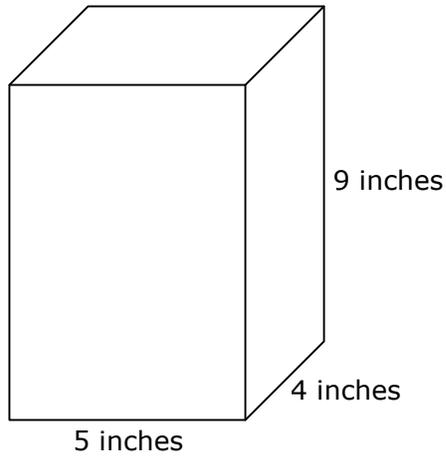
4 inches

5 inches

What is the number of 1-inch cubes needed to fill this box?

A 45 cubic inches

B 144 cubic inches

C 180 cubic inches

D 229 cubic inches

10. The model below shows the dimensions of a rectangular prism.

6 cm

10 cm

3 cm
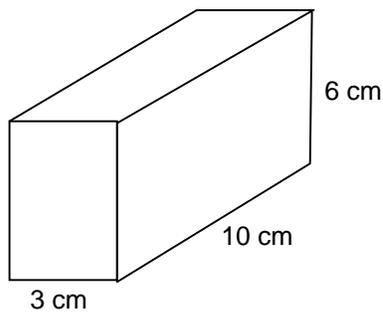
What is the number of 1-centimeter cubes needed to fill the prism?

F 600

G 60

H 180

J 30

TEKSING TOWARD STAAR

MATHEMATICS
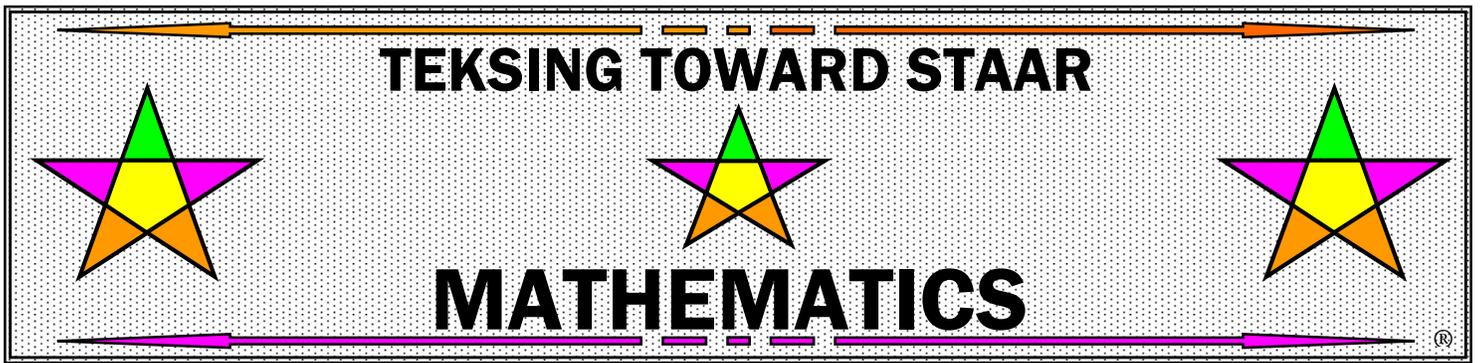
GRADE 5
Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 5

Data Analysis

NAME_____   DATE_____   SCORE ____/10

5.9A Mini-Assessment 1

1. Dakota made a frequency table to record the subjects of the videos she took on a recent vacation to Austin, Texas.

Vacation Video Record

Subject of Video	People	Scenery	Monuments	Animals
Number of Videos	12	7	5	9

Dakota has decided to represent her data in a bar graph. What is the number of bars she will include on her bar graph?

A 4

B 7

C 5

D 9

_____

2. Megan recorded the favorite type of museum for 20 of her fifth grade classmates.

Favorite Type of Museum			
art	art	science	history
history	science	art	art
science	media	history	science
art	history	science	media
history	media	history	science

Next, she made a frequency table to represent the data.

Favorite Type of Museum

Type	Frequency
Art	5
History	6
Media	3
Science	?

What number should Megan use to complete the frequency table for the students who chose science as their favorite type of museum?

F 3

G 6

H 1

J 7

3. A scout leader recorded the amount of time it took each of 14 scouts to hike a trail at a Texas State Park.

Trail Hiking Time (hours)						
$1\frac{3}{4}$	$2\frac{1}{4}$	$1\frac{1}{2}$	2	$1\frac{1}{2}$	1	$2\frac{1}{2}$
2	$1\frac{3}{4}$	3	$2\frac{1}{2}$	2	$2\frac{1}{4}$	2

The scout leader has decided to create a dot plot to represent the data. How many dots will he record on the dot plot to represent the number of hiking times greater than 2 hours?

A 1

B 5

C 2

D 3

---

4. Lucas recorded the high temperature each day for eight days. He used the data to create the stem-and-leaf plot shown below.

High Temperature	
Stem	Leaf
7	9
8	4 7 8
9	1 2 5 5

Key: 7 | 9 represents 79°F

Which table of data is represented by the stem-and-leaf plot that Lucas created?

F

High Temperatures (°F)							
95	92	79	84	96	88	91	96

G

High Temperatures (°F)							
96	92	79	84	95	88	91	95

H

High Temperatures (°F)							
95	91	79	84	94	88	91	95

J

High Temperatures (°F)							
95	88	79	84	92	87	91	95

5. Maria read that girls and boys do not choose the same favorite color. She surveyed her class to collect data to decide if what she read is true. She recorded the data in a frequency table, then she represented the data in a bar graph.

Favorite Color Survey		
Color	Boys	Girls
Red	6	8
Blue	3	2
Green	0	3
Yellow	4	1

Which bar graph best represents the data?

A

C

B

D
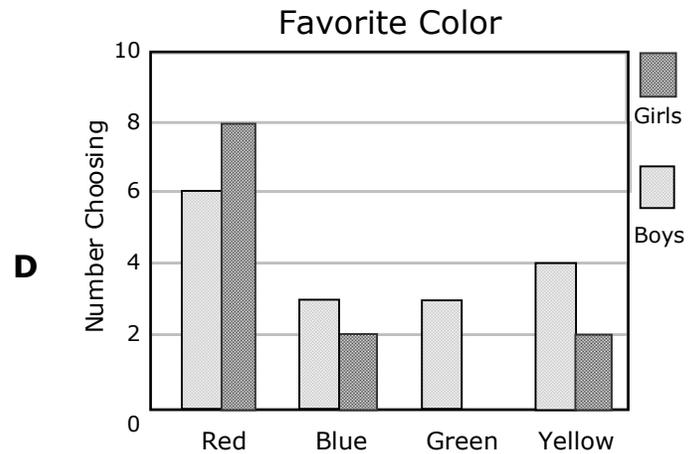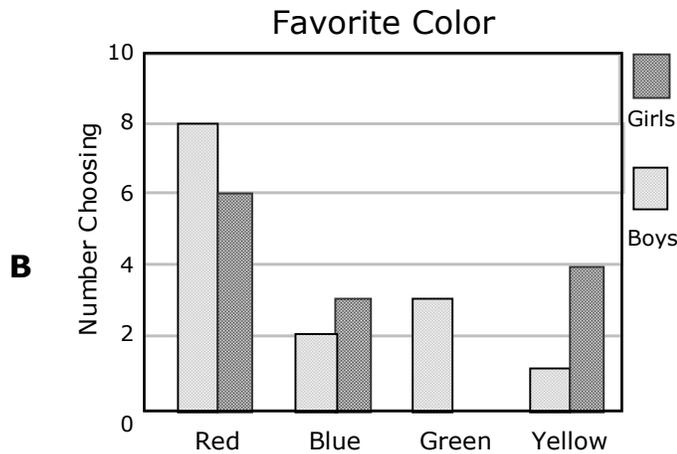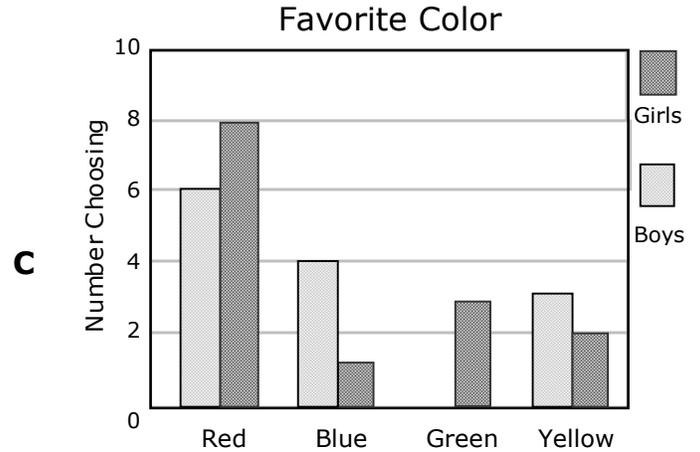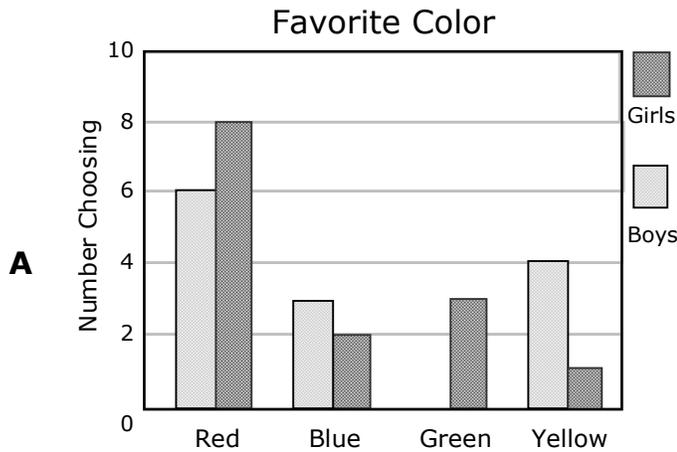
6. David sold tickets for a play at the Community Theater. He made a graph to represent the number of tickets he sold for the four nights he is the lead actor in the play. David needs to add a bar to the graph to represent the number of tickets he sold for Tuesday. The number he sold for Tuesday is greater than the number he sold for Saturday and less than the number he sold for Friday.

Community Theater Tickets Sold
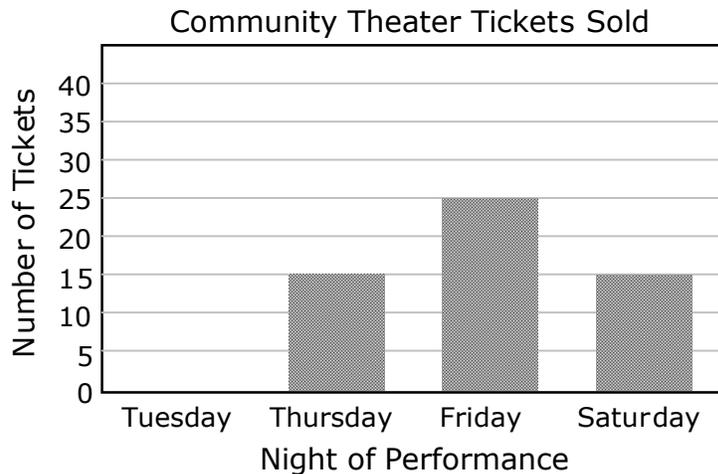
Which could be a number where he stops the bar for Tuesday?

F 9

G 14

H 17

J 26

7. Coach Beesley recorded the type of event each member of his track team will be competing in at a track meet on Saturday.

Track Team Member Events on Saturday			
sprint	relay	hurdles	hurdles
sprint	relay	relay	hurdles
relay	sprint	hurdles	relay
hurdles	sprint	relay	relay

He decided to make a frequency table to represent the data. What is the frequency of the team members competing in a relay race?

A 7

B 3

C 16

D 4

8. Remisha measured the lengths of each leaf in her science project collection to the nearest centimeter. The lengths of the leaves measured 12, 13, 12, 12, 15, 13, 14, 15, 12, 12, 15, 14, 13, 14, and 11 centimeters. Remisha decided to create a dot plot to represent her data.

Length of Leaf (cm)
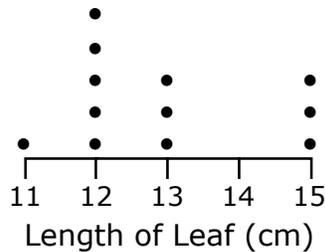
How many dots should Remisha plot above 14 on the dot plot?

F 3

G 0

H 5

J 1

9. Kendrick measured and recorded the height of ten of his cousins to the nearest inch. The heights he recoded are 50, 53, 45, 66, 52, 68, 56, 47, 69, and 60 inches. He decided to create a stem-and-leaf plot to represent the data.

Height (in.)	
Stem	Leaf
4	5 7
5	
6	0 6 8 9

Key: 4 | 5 represents 45 in.

What numbers should Kendrick record for the leaves for stem 5?

A 2, 3, 7

B 0, 2, 3, 5

C 0, 2, 3, 6

D 2, 3, 5

10. Keri recorded the number of points for each word she created during a word game.

Number of Points							
22	19	27	13	31	15	22	33

Which stem-and-leaf plot represents the points Keri scored?

F

Points Scored	
Stem	Leaf
1	3 5
2	2 2 7
3	1 3 9

Key: 1 | 3 represents 13 points

H

Points Scored	
Stem	Leaf
1	3 7 9
2	2 2 7
3	1 3

Key: 1 | 3 represents 13 points

G

Points Scored	
Stem	Leaf
1	3 5
2	2 2 7
3	1 3 9

Key: 1 | 3 represents 13 points

J

Points Scored	
Stem	Leaf
1	3 5 9
2	2 2 7
3	1 3

Key: 1 | 3 represents 13 points

NAME_____   DATE_____   SCORE ____/10

5.9A Mini-Assessment 2

1. Janetta made a graph to represent the types of books she sold on Friday in her book store.

Book Sales
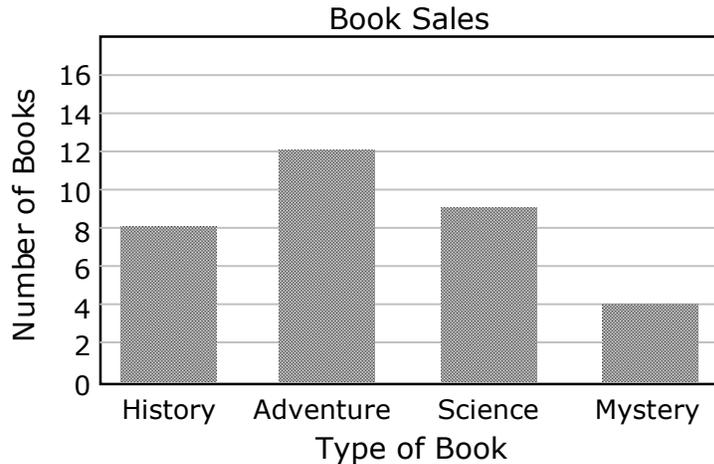
She needs to add a bar to her graph to represent the biography books she sold. Where will the bar representing biography books stop if she sold 3 fewer biography than history books?

A The bar representing biography books will stop at 11 on the graph.

B The bar representing biography books will stop at 5 on the graph.

C The bar representing biography books will stop at 8 on the graph.

D The bar representing biography books will stop at 3 on the graph.

___

2. Angelina recorded the name of each animal she photographed at a national forest.

Animal Photographs			
elk	deer	elk	deer
deer	bear	deer	deer
deer	elk	deer	bear

Which frequency table represents the data Angelina recorded?

Animal Photographs

F

Animal	Frequency
Elk	3
Deer	7
Bear	2

Animal Photographs

H

Animal	Frequency
Elk	7
Deer	12
Bear	2

Animal Photographs

G

Animal	Frequency
Elk	7
Deer	3
Bear	2

Animal Photographs

J

Animal	Frequency
Elk	3
Deer	6
Bear	3

3. A restaurant sells take-out salad orders by weight. A cashier recorded the weights of 10 take-out salads sold today. The restaurant manager decided to create a dot plot to represent the data.

Take-out Salad Weights (lb.)				
1	1.25	0.75	1.25	1.75
2.5	2.25	1.75	2.25	1.75

How many dots should the manager use to represent the number of 1.75-pound take-out salads sold today?

A 8

B 5

C 10

D 3

---

4. Clarissa recorded the distance she rode her new bicycle each week to the nearest mile. The distances she recoded for 11 weeks are 49, 31, 36, 41, 28, 44, 23, 34, 32, 33, and 25 miles. She decided to create a stem-and-leaf plot to represent the data.

Distance (miles)	
Stem	Leaf
2	
3	1 2 3 4 6
4	1 4 9

Key: 2 | 0 represents 20 mi

What numbers should Clarissa record for the leaves for stem 2?

F 3, 5, 8

G 2, 3, 5, 8

H 1, 2, 3, 4, 6

J 2, 3, 5, 6

5. Georgio made a graph to represent the types of books he sold on Friday at a book store.

Book Sales
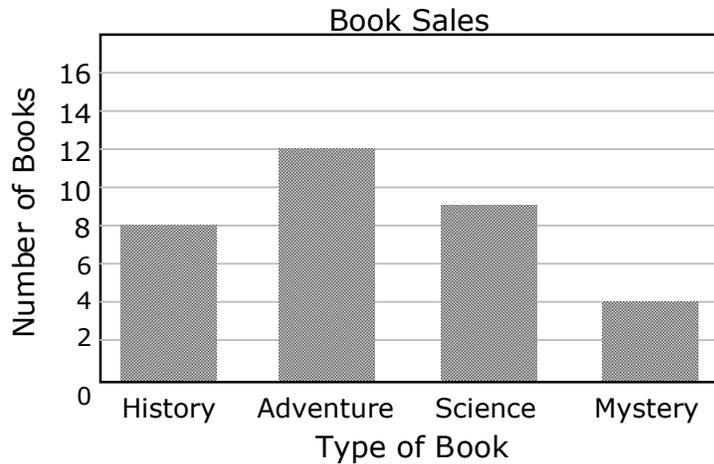
Georgio needs to add a bar to represent the classic novels he sold. Where could the bar representing classic novels stop if he sold more classic novels than adventure books?

A The bar representing classic novels could stop at 12 on the graph.

B The bar representing classic novels could stop at 6 on the graph.

C The bar representing classic novels could stop at 10 on the graph.

D The bar representing classic novels could stop at 14 on the graph.

---

6. Demitrius measured and recorded the heights of 10 tomato plants two weeks after he planted them in his vegetable garden. The heights he recorded in inches are 24, 11, 21, 18, 15, 25, 30, 13, 23, and 36. He created a stem-and-leaf plot shows to represent the data.

Height (in)	
Stem	Leaf
1	
2	1 3 4 5
3	1 4 9

Key: 2 | 1 represents 21 in.

What numbers should Demitrius record for the leaves for stem 1?

F 2, 3, 5, 8

G 1, 3, 8

H 1, 2, 3, 5, 8

J 1, 3, 5, 8

7. Celine recorded the toppings ordered on the pizzas she made today.

Pizza Toppings Ordered Today							
olives	sausage	peppers	pepperoni	olives	olives	chicken	sausage
pepperoni	olives	chicken	mushrooms	sausage	peppers	pepperoni	peppers
chicken	mushrooms	sausage	olives	pepperoni	pepperoni	sausage	mushrooms
pepperoni	peppers	sausage	sausage	olives	mushrooms	olives	sausage
chicken	olives	peppers	chicken	pepperoni	olives	peppers	

She made a frequency table for her manager to represent the data she recorded.

Pizza Toppings Ordered

Topping	Frequency
Mushrooms	4
Pepperoni	7
Chicken	5
Olives	
Peppers	6
Sausage	8

Which number completes the frequency table for the number of times olives were ordered?

A 8

B 3

C 12

D 9

8. Olivia recorded the weight of 10 different bags of grapes to the nearest ounce. The weights she recorded are 16, 15, 13, 15, 15, 13, 13, 15, 14, and 16 ounces. She created a dot plot to represent the data.

Weight of Bag (oz)

What is the number of dots Olivia should record above 15?

F 0

G 3

H 4

J 2

9. Bianca made a bar graph to display the data in the table below.

Color Tiles in a Bag

Color	Number of Tiles
Red	24
Green	8
Yellow	32
Blue	16

Which statement is **NOT** true about a bar graph that represents the data in the table?

A The bar representing blue tiles is twice as long as the bar representing the green tiles.

B The bar representing blue tiles is half the length of the bar representing the yellow tiles.

C The bar representing red tiles is three times as long the bar representing the green tiles.

D If the bar representing red tiles and the bar representing green tiles are combined, the new bar is not as long as the bar representing the yellow tiles.

10. Lydia recorded the color of each scarf she made to sell at a craft fair.

Craft Fair Scarf Colors								
yellow	red	black	red	red	yellow	red	green	orange
red	green	black	red	blue	red	blue	yellow	green
blue	orange	yellow	blue	yellow	green	yellow	black	blue
green	yellow	black	yellow	blue	red	blue	blue	red

Then she made a frequency table to represent the number she made of each color of scarf.

Craft Fair Scarf Colors

Color	Frequency
Yellow	8
Red	10
Green	
Orange	2
Black	4
Blue	7

Which number completes the frequency table for the number of green scarves Lydia made?

F 7

G 5

H 6

J 4

TEKSING TOWARD STAAR

MATHEMATICS
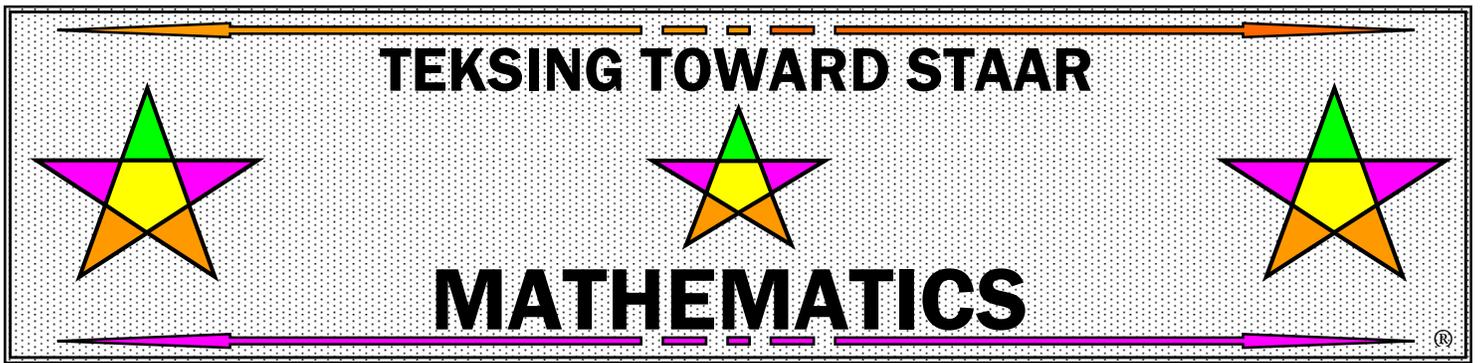
GRADE 5
Mini-Assessments
STAAR Format
TEKS Categories

TEKS CATEGORY 6
Personal
Financial Literacy

NAME_____   DATE_____   SCORE ____/10

5.10A Mini-Assessment 1

1. Which of the following is true?

   A A tax is income received for being an entrepreneur.

   B A tax is illegal.

   C A tax is a required payment to the government.

   D A tax is a payment for rent.

2. Which of the following provides most of the money used to pay for police departments?

   F Money paid for police services

   G Taxes paid to the government

   H Insurance paid for police services

   J Donations given to police departments

3. Ms. Maycus earns $850 each week. She pays $52.64 in federal income taxes, $37.09 in state income taxes, and $12.90 in other taxes. What is the total amount Ms. Maycus pays in taxes on her earnings each week?

   A $49.99

   B $12.63

   C $102.63

   D $747.37

4. Jackson got a part-time job making hamburgers at a café. Last week he earned $100 in wages, but he received a paycheck for only $70. What is the reason the amount of his paycheck was less than the wages he earned?

   F Jackson only worked part-time.

   G The café lost money last week.

   H The owner of the café decided not to pay Jackson the total amount he earned.

   J Taxes were taken out of Jackson's paycheck.

5. Mr. Logan's new workshop has a value of $7,000. The property tax rate in his town is $20.11 per year for every $1,000 of property value. The property tax is paid yearly. What is the amount of property tax will Mr. Logan pay on his new workshop for one year?

   A $104.77

   B $1,407.70

   C $14.07

   D $140.77

6. Selena earned $790 dollars this week. Her federal income taxes are $92.25. Her pay after taxes is $655.60. What is the amount she paid in state income taxes?

   F $15.95

   G $697.75

   H $42.15

   J Not here

7. The property tax on a home with a value of $100,000 is $1,550 in a town in Texas. Based on this information, which statement is true?

   A The property tax rate in the town is $10.50 for every thousand dollars in value.

   B The property tax rate in the town s $155 for every thousand dollars in value.

   C The property tax rate in the town is $25 for every thousand dollars in value.

   D The property tax rate in the town is $15.50 for every thousand dollars in value.

8. Katrina is buying a new sleeping bag for a camping trip. The sleeping bag costs $65 plus tax. Katrina gives the cashier $100 and receives $29.80 in change. What is the amount of sales tax Katrina paid for the sleeping bag?

   F $70.20

   G $100.00

   H $5.20

   J $65.00

9. Which of the following is a description of payroll tax?

   A Money an employer withholds from an employee's earnings

   B Money paid to a city, town, state government or the U.S. government

   C Money added to the cost of items or services

   D Money earned over a period of time

10 Alyssa wants to buy $90 worth of items at a discount store. The sales tax is $0.08 for every dollar she spends. What will be the total cost of her purchase?

   F $90.08

   G $1.08

   H $7.20

   J $97.20

NAME_____   DATE_____   SCORE ____/10

5.10A Mini-Assessment 2

1. Stella earned $820 dollars this week. Her net income is $683.20. She paid $95.60 in federal income tax. What is the amount Stella paid in state income tax?

   A $95.60

   B $820.00

   C $778.80

   D $41.20

2. Tony's new storage shed has a value of $5,000. The property tax in his town for one year is $12.50 for every $1,000 of property value. What is the amount Tony pays in property taxes on his new shed for one year?

   F $62.50

   G $5,062.50

   H $625.00

   J $5,012.50

3. Yolanda pays $0.08 in sales tax for every $1 that she spends in her town. She has decided to spend $70 on a new pair of athletic shoes. What is the amount she will pay for the shoes, including sales tax?

   A $75.60

   B $5.60

   C $70.08

   D $64.40

4. Taxes are used to pay for which of the following?

   F Profit for a store

   G Savings for people

   H Wages for store workers

   J Services provided by the government

5. Which of the following are required payments to the government?

   A Income

   B Savings

   C Wages

   D Taxes

6. Drew bought a computer for $480. Which tax could he have paid on the purchase?

   F Payroll tax

   G Sales tax

   H Income tax

   J Property tax

7. Mr. Kendall had a new garage built. Which yearly tax will increase based on the value of the garage?

   A Payroll tax

   B Sales tax

   C Income tax

   D Property tax

8. Leah has a new job at a bakery. Which of the following is the money her employer will withhold from her earnings?

   F Sales tax

   G Payroll tax

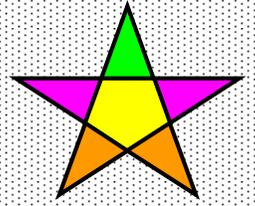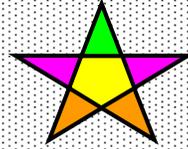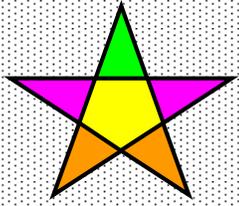   **H** Property tax

   J Not here

9. Miriam has an annual salary of 45,500. Which tax is the money she will pay to a government based on the amount of her yearly salary?

   A Payroll tax

   B Sales tax

   C Income tax

   D Property tax

10. Which tax is the money added to the cost of items or services?

    F Payroll tax

    G Sales tax

    H Income tax

    J Property tax

TEKSING TOWARD STAAR

MATHEMATICS

GRADE 5
STAAR Format Periodic Assessments

Containing Multi-TEKS

Answer Key and TEKS/STAAR Category and Standard Correlation

• Copy 1 assessment for each student.

• Students answer the questions individually, however, the same assistance may be given as will be allowed on the actual STAAR.

Question	Answer	TEKS Assessed	STAAR Category	STAAR Standard
1	B	5.2A	1	Supporting
2	J	5.2B	1	Readiness
3	D	5.2C	1	Supporting
4	G	5.3A	2	Supporting
5	C	5.3B	2	Supporting
6	J	5.3C	2	Supporting
7	A	5.3D	2	Supporting
8	H	5.3E	2	Readiness
9	B	5.3F	2	Supporting
10	J	5.3G	2	Readiness
11	B	5.8A	3	Supporting
12	G	5.8B	3	Supporting
13	C	5.8C	3	Readiness
14	G	5.9A	4	Supporting
15	C	5.9B	4	Supporting
16	J	5.9C	4	Readiness
17	C	5.10A	4	Supporting
18	H	5.10B	4	Supporting
19	A	5.10E	4	Supporting
20	J	5.10F	4	Supporting

1. A green rod is 8 centimeters long. An orange rod is $\frac{1}{10}$ the length of the green rod. A purple rod is 10 times as long as the orange rod. What is the length of the purple rod?

   A 0.08 centimeter

   B 8 centimeters

   C 0.9 centimeter

   D 90 centimeters

2. Alberto ran a race in 17.6 seconds. Jake ran the race in 18.307 seconds. Morris ran the race in a time greater than 17.6 seconds but less than 18.307 seconds. Which could represent a comparison of the times the three boys ran the race?

   F 17.6 s < 17.054 s < 18.307 s

   G 17.6 s < 18.4 s < 18.307 s

   H 17.6 s < 17.39 s < 18.307 s

   J 17.6 s < 18.21 s < 18.307 s

3. Bridgett found a pine cone that measured 8.156 inches long. What is the length of the pinecone rounded to the nearest hundredth?

   A 8 in.

   B 8.15 in.

   C 8.2 in.

   D 8.16 in.

4. Last week 52,341 people attended the local high school football game. This week 7,769 fewer people attended the local high school football game. About how many people attended the game this week?

   F 54,500

   G 44,500

   H 50,100

   J 60,100

5. During the first semester of school, Lupe filled 138 pages of her math spiral notebook. On the last page of her spiral she found a note that tells her to multiply the number of pages she has filled by 17. The note also tells her to take her answer to the school office to pick up a prize if the answer is correct. What is the correct answer?

   A 2,432

   B 1,240

   C 2,346

   D 2,436

6. Martina uses 22 ounces of lime juice to make 1 gallon of limeade. She has 572 ounces of lime juice. How many gallons of limeade can Martina make?

   **F** 132

   G 21

   H 260

   J 26

7. Each small square in the models below represents 0.01. Which model is shaded to represent the product of 0.3 and 0.6?

   A

   C

   B

   D
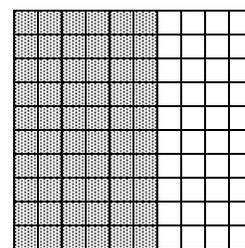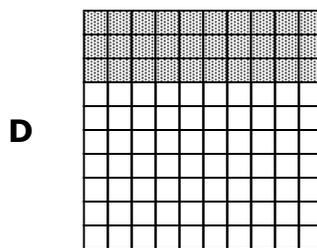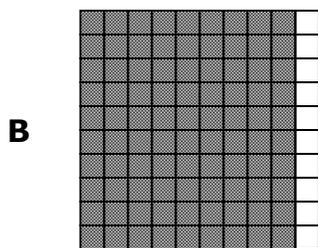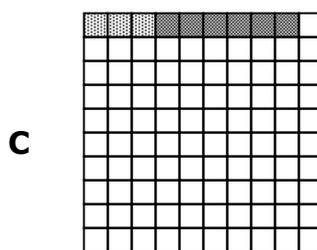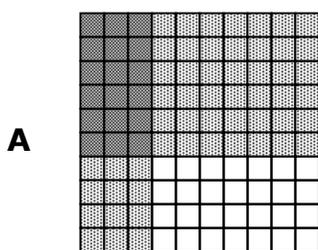
8. Ciera planted an oak tree at the city park. The height of the tree is 0.3 meter. An oak tree in the center of the park is 100 times taller than the tree Ciera planted. How tall is the oak tree in the center of the park?

F 0.03 meter

G 3 meters

H 30 meters

J 300 meters

9. The model represents a bamboo plant that measured 12.62 yards high yesterday. Today, the bamboo had grown by 0.34 yard. Today Marge chopped the bamboo into 6 equal pieces to put into a tall metal container for decoration on her patio.
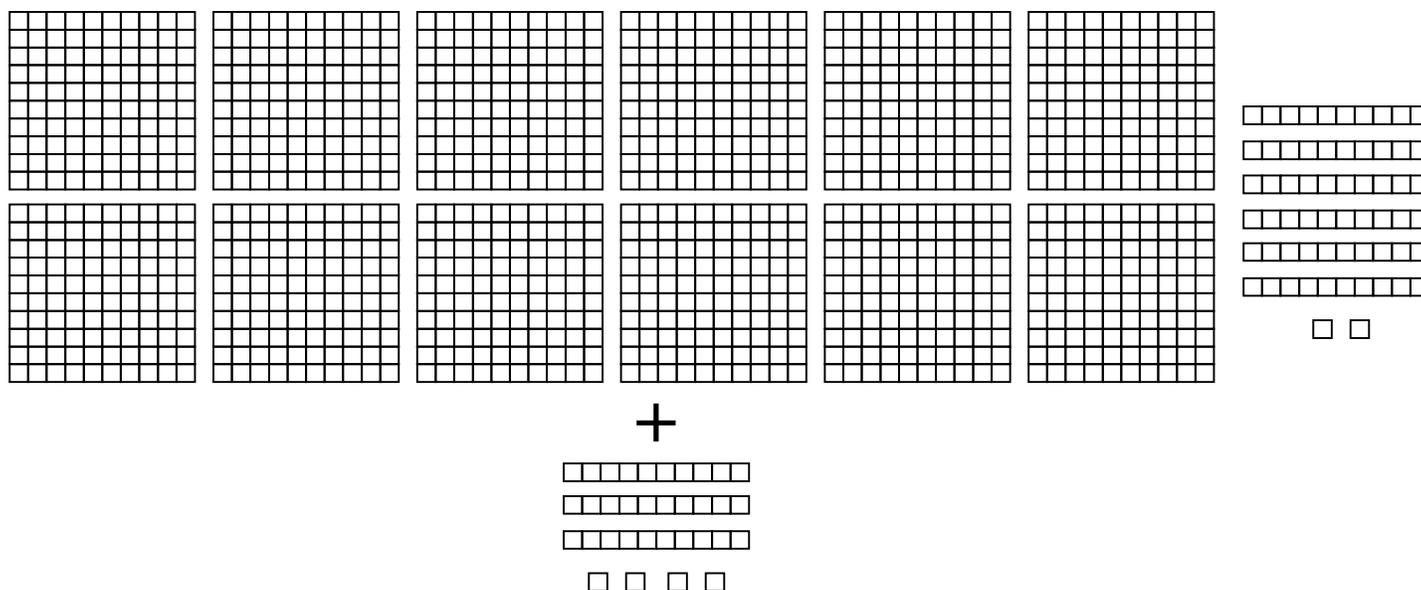
How long is each piece of bamboo she put into the container?

**A** 21.6 yd

B 2.16 yd

C 0.216 yd

D 216 yd

10. A college professor took his archaeology class to dig for arrow heads. He spent $37.95 on 23 packets of hand wipes for his class. What was the cost for each packet?

F $16.05

G $1.60

H $16.50

J $1.65

11. Isaac plotted a point to represent the ordered pair (3, 8). Which statement is true about the *y*-coordinate in the ordered pair?

   A The point is 8 units to the right of the *y*-axis.

   B The point is 8 units up from the *x*-axis.

   C The point is 3 units to the right of the *y*-axis.

   D The point is 3 units up from the *x*-axis.

12. Jessie graphed 5 points on a coordinate plane.
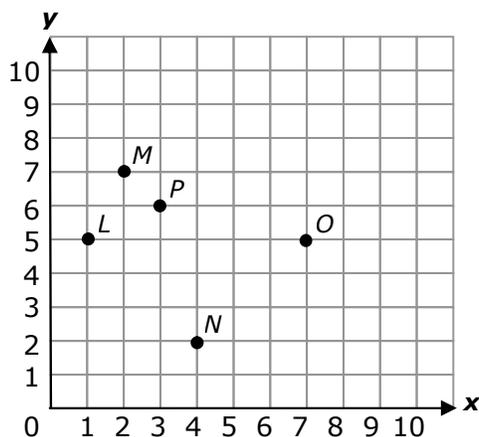
   Which ordered pair represents point *P*?

   F (6, 3)

   G (3, 6)

   H (0, 6)

   J (6, 4)

13. The *x*-coordinate in the table represents the number of sandwiches and the *y*-coordinate represents the number of thin slices of tomato used to make each number of sandwiches.

Sandwich Tomato Slices

Number of Sandwiches	1	2	3	4
Number of Tomato Slices	3	6	9	

   Which ordered pair represents the point showing the number of tomato slices in 4 sandwiches?

   A (1, 4)

   B (4, 4)

   C (4, 12)

   D (4, 16)

14. Miguel volunteers at an animal shelter. The owner of the shelter asked Miguel to record the length of each cat in the shelter. He used a metric measuring tape and recorded these lengths for the cats in centimeters: 46, 42, 38, 50, 33, 46, 47, 51, 30, 44, 51, 37, 49. Miguel created a stem-and-leaf plot to represent the data.

Lengths of Cats (cm)	
Stem	Leaf
3	
4	2 4 6 6 7 9
5	0 1 1

Key: 5 | 0 represents 50 cm

What numbers should Miguel record for the leaves for stem 3?

F 0, 3, 8

G 0, 3, 7, 8

H 3, 4, 5

J 6, 6, 7, 9

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15. The manager of a sporting goods store recorded the relationship between the lowest outside temperature and the number of pairs of gloves sold on six different days.

Ski Jackets Sold

Number of Pairs of Gloves	25	10	15	30	20	35
Outside Temperature (°F)	32	50	45	30	40	25

The manager decided to plot the data on a scatterplot. Which ordered pair will **NOT** represent a point on the scatterplot he creates to represent the data?

A (30, 30)

B (15, 45)

C (45, 30)

D (35, 25)

16. A school librarian created a stem-and-leaf plot to represent the number of books read by fifth grade students during a reading contest. Students who read more than 25 and less than 35 books were given a $5 gift card to a book store. Students who read 35 books or more were given a $10 gift card to a book store.

Reading Contest Data

Stem	Leaf
1	3 4 4 6 9
2	1 1 2 3 4 6 7 8 8
3	0 2 2 4 5 7
4	1 2 3

Key: 1 | 3 represents 13 books

What is the total value of the gift cards given to fifth grade students?

F $13

G $65

H $10

J $90

17. Celina's pay after taxes is $855.08. Her total earnings are $1,100. What amount did she pay in payroll tax?

A $144.02

B $855.08

C $244.92

D $1,100.00

8. Priscilla works at the amusement park. In the last four weeks, her gross income was $112.25, $98.75, $125.50, and $109.25. Her total payroll tax was $62.30. What was Prosiclla's net income for the four weeks if her earnings from this job are her only source of income?

F $445.75

G $196.55

H $383.45

J $508.05

19. Oscar's November budget is shown below.

November Budget

Income	Expense
Allowance: $44	Science Club Dues: $8
Tutoring: $20	Savings: $25
	Science Supplies: $38

Oscar's income is the same in December as it was in November. He decides not to purchase any science supplies, but spends $14 on a trip to a science museum. What is the amount that can Oscar increase his savings and still have a balanced budget in December?

A $17

B $34

C $24

D $42

20. Rodney earns $650 per week. This week, Rodney wants to donate $100 to charity. His weekly expenses are $595. How much will Rodney need to reduce his expenses to be able to make the donation and balance his budget?

F $55

G $50

H $40

J $45