

# GRADE 7

## STAAR

# Blueprint Assessments

## **OVERVIEW**

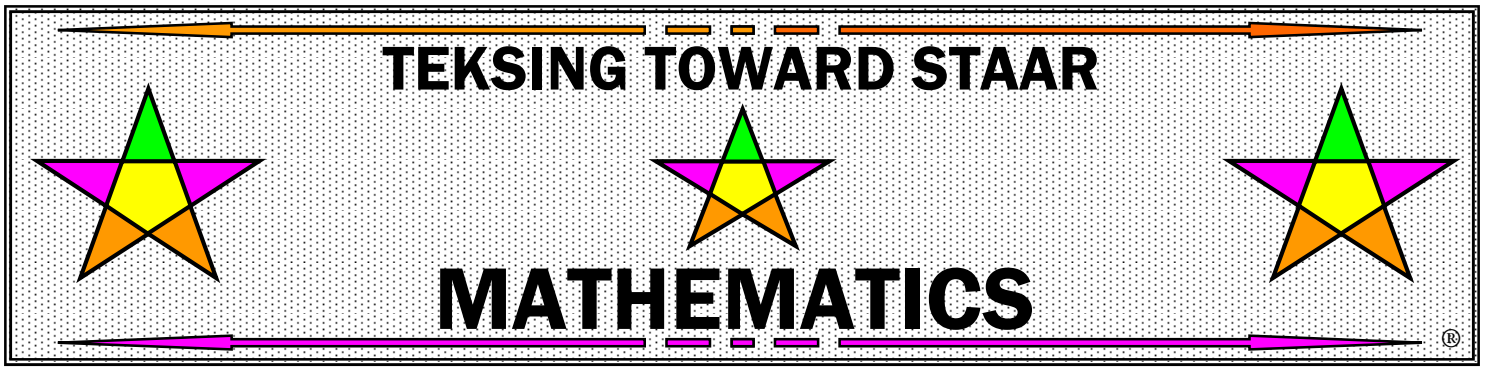
These Blueprint Assessments were created to provide teachers with assessments that include the same number of questions as the actual STAAR assessment. Blueprint Assessment 1 and Blueprint Assessment 2 give teachers the opportunity to assess the TEKS assessed on STAAR, as well as an opportunity to assess the endurance level of students as they strive to successfully complete an assessment the actual length of the STAAR. An answer key and TEKS correlation is provided for each item on each assessment. Teacher Notes regarding suggestions for administration of the assessments are also included.

**The design of the Blueprints Assessments takes into consideration the following information from the STAAR Grade 7 Mathematics Blueprint released from the TEA in January 2014:**

- 60% - 65% of the questions will assess Readiness Standards – 32-35 of 54 total questions
- 35% - 40% of the questions will assess Supporting Standards – 19-22 of 54 total questions
- 50 questions will be multiple choice format and 4 questions will be griddable format

## **AUTHORS' VISION FOR IMPLEMENTATION**

- Blueprint Assessments can be broken up into sections and given over a period of time, or can be given in a STAAR day type setting.
- Blueprint Assessment 1 is designed to be given at the beginning of a school year, as much to find out what students HAVE mastered, as to find out what students HAVE NOT mastered.
- Blueprint Assessment data should be recorded in a Class Profile and a Student Profile.
- Blueprint Assessment 2 is designed to be given at the beginning of the second semester to assess whether students are able to demonstrate mastery of TEKS that have been taught, as well as assess TEKS that have not been taught.
- Blueprint Assessment 2 should help teachers make instructional decisions regarding time spent on whole class instruction for TEKS that have not been taught, as well as time spent on TEKS in tutorial settings – for whole class and/or small group.



# GRADE 7

## STAAR

### Blueprint

# Assessment 1

**TEKSING TOWARD STAAR**  
**Mathematics Blueprint Assessment 1**  
Grade 7

**Teacher Notes:**

The following information is from the STAAR Grade 7 Mathematics Blueprint released from the TEA in January 2014:

- 60% - 65% of the questions will assess Readiness Standards – 32-35 of 54 total questions
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- 50 questions will be multiple choice format and 4 questions will be griddable format

This Blueprint Assessment has been designed with the above information in mind and includes 54 questions so that teachers and students will be able to have a feel for the time it will take students to complete the actual STAAR test, not including field test items.

Remember to encourage your students to utilize the Grade 7 Mathematics Reference Materials. You might consider copying the chart on cardstock for stability when students are using the rulers to answer test items.

**TEKSING TOWARD STAAR**  
**Mathematics Blueprint Assessment 1**  
**Grade 7**  
**Answer Key, Category/Standard and TEKS Correlation**

Question	Answer	Category/ Standard	TEKS	Question	Answer	Category/ Standard	TEKS
1	A	2/Readiness	7.3B	28	H	2/Readiness	7.4D
2	J	1/Readiness	7.6H	29	B	1/Supporting	7.6C
3	C	2/Supporting	7.3A	30	F	2/Supporting	7.10A
4	F	3/Readiness	7.9B	31	B	3/Readiness	7.5C
5	C	4/Readiness	7.12A	32	H	4/Readiness	7.12A
6	H	2/Readiness	7.4A	33	C	1/Supporting	7.6E
7	B	1/Supporting	7.2A	34	18	2/Readiness	7.4D
8	H	3/Readiness	7.9A	35	C	3/Readiness	7.9C
9	A	2/Supporting	7.10C	36	G	2/Supporting	7.4B
10	G	1/Readiness	7.6I	37	C	3/Readiness	7.9A
11	B	2/Readiness	7.11A	38	G	2/Readiness	7.7A
12	J	3/Supporting	7.9D	39	A	3/Supporting	7.4E
13	B	4/Readiness	7.6G	40	H	1/Readiness	7.6H
14	H	1/Supporting	7.6D	41	C	2/Readiness	7.3B
15	D	2/Supporting	7.4C	42	G	3/Supporting	7.5A
16	35	3/Readiness	7.5C	43	A	3/Readiness	7.9B
17	A	2/Readiness	7.4A	44	F	2/Readiness	7.11A
18	H	4/Supporting	7.12C	45	B	3/Readiness	7.9C
19	C	2/Readiness	7.7A	46	G	2/Readiness	7.4D
20	J	3/Readiness	7.9A	47	C	1/Readiness	7.6I
21	B	4/Supporting	7.12B	48	F	2/Supporting	7.10B
22	H	1/Readiness	7.6I	49	C	4/Supporting	7.13E
23	2.45	2/Readiness	7.3B	50	9.60	4/Supporting	7.13A
24	G	3/Readiness	7.5C	51	B	2/Supporting	7.11B
25	C	4/Readiness	7.6G	52	H	3/Readiness	7.9C
26	J	3/Supporting	7.11C	53	C	3/Supporting	7.5B
27	A	2/Supporting	7.11B	54	F	4/Readiness	7.12A

The Mathematical Process Standards student expectations will be incorporated into test questions across reporting categories since the application of mathematical process standards is part of each knowledge statement. Thus, the TEKS column of each question contains only the Category 1-4 TEKS listed.

**TEKSING TOWARD STAAR**  
**Mathematics Blueprint Assessment 1**  
**Grade 7**

1. A total of 30 mothers baked cakes for a bake sale. Each mother baked 2 cakes. The bake sale director found 35% of the cakes were chocolate. How many chocolate cakes were made for the bake sale?

- A** 21
- B** 60
- C** 10
- D** Not Here

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2. Joanie rolls two 1-6 number cubes 80 times. Is it likely she will roll a sum of 5 more than 12 times?

- F** Yes, because the probability of rolling a sum of 5 is  $\frac{1}{6}$  and  $\frac{1}{6} \times 80 = 13\frac{1}{3}$  which is more than 12.
- G** Yes, because the probability of rolling a sum of 5 is  $\frac{1}{4}$  and  $\frac{1}{4} \times 80 = 20$  which is more than 12.
- H** No, because the probability of rolling a sum of 5 is  $\frac{1}{10}$  and  $\frac{1}{10} \times 80 = 8$  which is less than 12.
- J** No, because the probability of rolling a sum of 5 is  $\frac{1}{9}$  and  $\frac{1}{9} \times 80 = 8\frac{8}{9}$  which is less than 12.

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3. A class of 26 students bought a present for their principal. The present cost \$119.60, tax included. How much did each student contribute if the class shared the cost equally?

- A** \$4.30
- B** \$4.40
- C** \$4.60
- D** Not Here

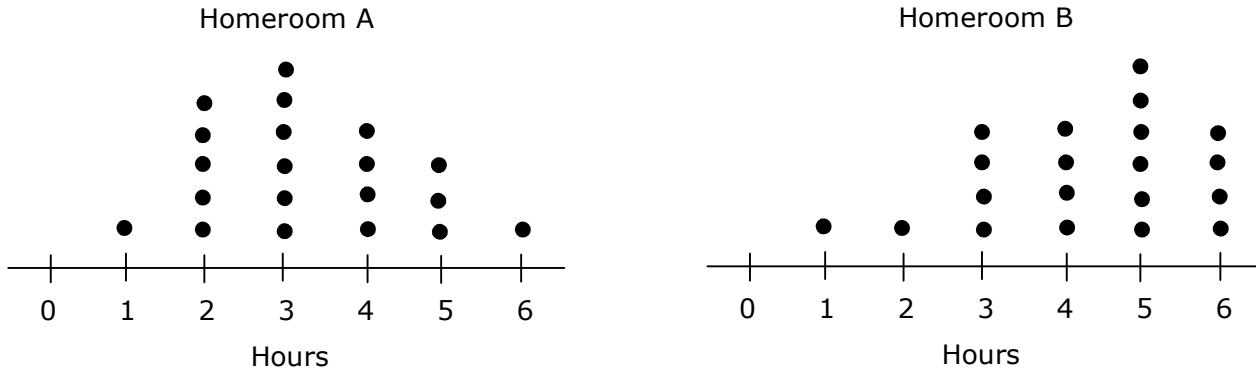
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4. A bicycle tire has a diameter of 26 inches. Which is closest to the distance the tire will travel in one complete revolution?

- F** 81.6 inches
- G** 163.3 inches
- H** 40.8 inches
- J** 530.7 inches

**TEKSING TOWARD STAAR**  
**Mathematics Blueprint Assessment 1**  
**Grade 7**

5. The dot plots below show the number of hours students in two homerooms spent on homework each week.

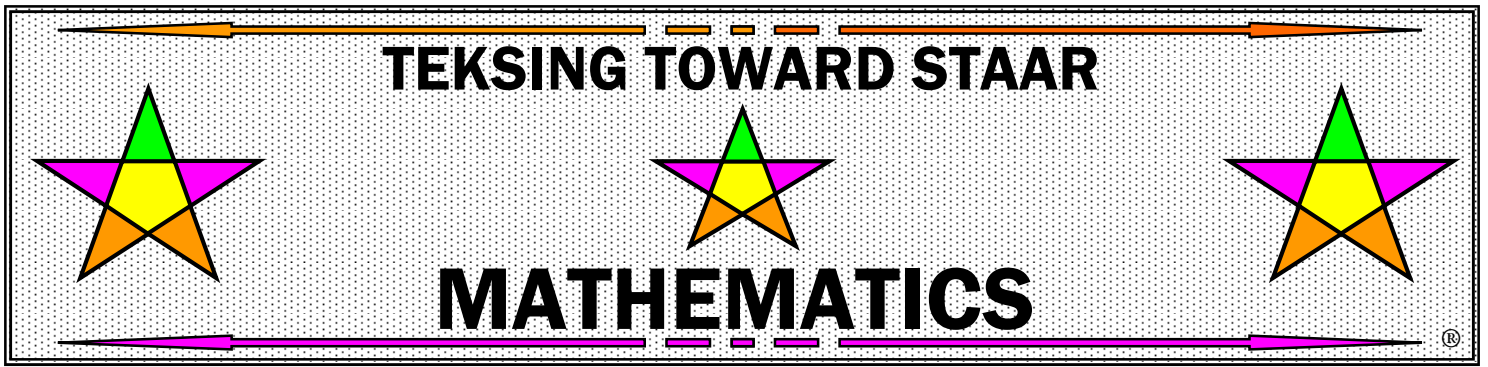


Which statement about the number of hours students spent on homework appears to be true?

- A** Homeroom A has a larger spread in hours they spend on homework than Homeroom B has in the hours they spend on homework.
- B** Homeroom A has a center of 3 and Homeroom B has a center of 5.
- C** Homeroom A has more students spending 2, 3, or 4 hours on homework than Homeroom B had students spending 4, 5, or 6 hours on homework.
- D** Homeroom A had more than half of their students spending 4 or more hours on homework and Homeroom B had more than two-thirds of their students spending 4 or more hours on homework.

6. Which situation represents a constant rate of change of 50 miles per hour?

- F** 100 miles in 3 hours
- G** 180 miles in 3 hours
- H** 200 miles in 4 hours
- J** 300 miles in 5 hours



# GRADE 7

## STAAR

### Blueprint

### Assessment 2



**TEKSING TOWARD STAAR**  
**Mathematics Blueprint Assessment 2**  
Grade 7

**Teacher Notes:**

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**Mathematics Blueprint Assessment 2**  
**Grade 7**  
**Answer Key, Category/Standard, and TEKS Correlation**

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7	B	2/Readiness	7.4A	34	1440	2/Readiness	7.4D
8	J	3/Readiness	7.9A	35	C	3/Readiness	7.9C
9	C	2/Supporting	7.10C	36	H	2/Supporting	7.4B
10	H	4/Readiness	7.6G	37	C	3/Readiness	7.9A
11	B	1/Supporting	7.6D	38	F	2/Readiness	7.7A
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15	C	2/Supporting	7.11B	42	G	3/Supporting	7.5A
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**TEKSING TOWARD STAAR**  
**Mathematics Blueprint Assessment 2**  
Grade 7

1. A bag contains 12 red tiles, 2 blue tiles, and 1 yellow tile. Betty will draw two tiles from the bag one at a time without replacement. What is the probability that she will draw a red tile and then a yellow tile?

**A**  $\frac{2}{15}$

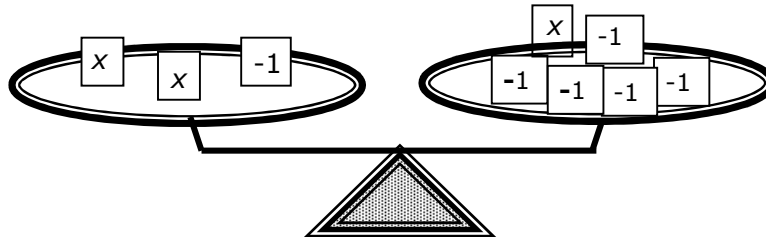
**B**  $\frac{2}{35}$

**C**  $\frac{4}{75}$

**D**  $\frac{1}{5}$

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2. What value of  $x$  makes the equation modeled below true?



**F**  $x = -3$

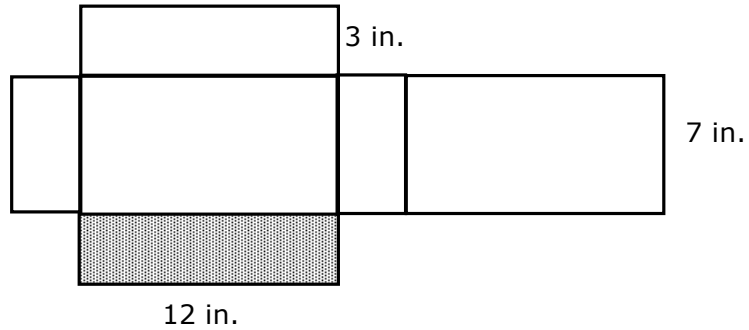
**G**  $x = -4$

**H**  $x = -2$

**J**  $x = 4$

**TEKSING TOWARD STAAR**  
**Mathematics Blueprint Assessment 2**  
**Grade 7**

3. The net for a rectangular prism is shown below. The shaded rectangle is a base of the prism.



What is the lateral surface area of the rectangular prism in square inches?

Record your answer on the grid below. Be sure to use the correct place value.

						.		
+	0	0	0	0	0		0	0
-	1	1	1	1	1		1	1
	2	2	2	2	2		2	2
	3	3	3	3	3		3	3
	4	4	4	4	4		4	4
	5	5	5	5	5		5	5
	6	6	6	6	6		6	6
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	8	8	8	8	8		8	8
	9	9	9	9	9		9	9

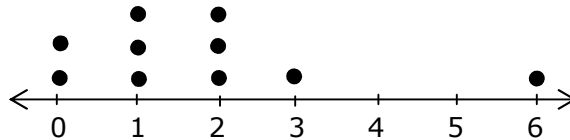
4. A circle has a radius of 14 inches. Which of the following best describes the circumference of the circle?

- F** 28 inches
- G** 44 inches
- H** 88 inches
- J** 615.8 inches

TEKSING TOWARD STAAR  
Mathematics Blueprint Assessment 2  
Grade 7

5. The game statistician kept a record of the number of field goals a football team attempted in ten games played last season. The data is shown in the dot plot below.

Number of Field Goals



Which of the following statements is **not** supported by the dot plot?

- A The team attempted eighteen field goals in ten games.
- B The median number of field goals attempted was three.
- C The most number of field goals the team attempted in the ten games was 6.
- D A field goal was not attempted in two games.

- 
6. Which of the following sets of numbers would belong to the integers?

- F  $\{6, -5, 1.25\}$
- G  $\{2, 4, 0.\bar{3}\}$
- H  $\{-8, 4, 13, 25\}$
- J  $\left\{\frac{16}{4}, 8, 7.1, 9\right\}$