

GRADE 6

STAAR

Blueprint

Assessments

OVERVIEW

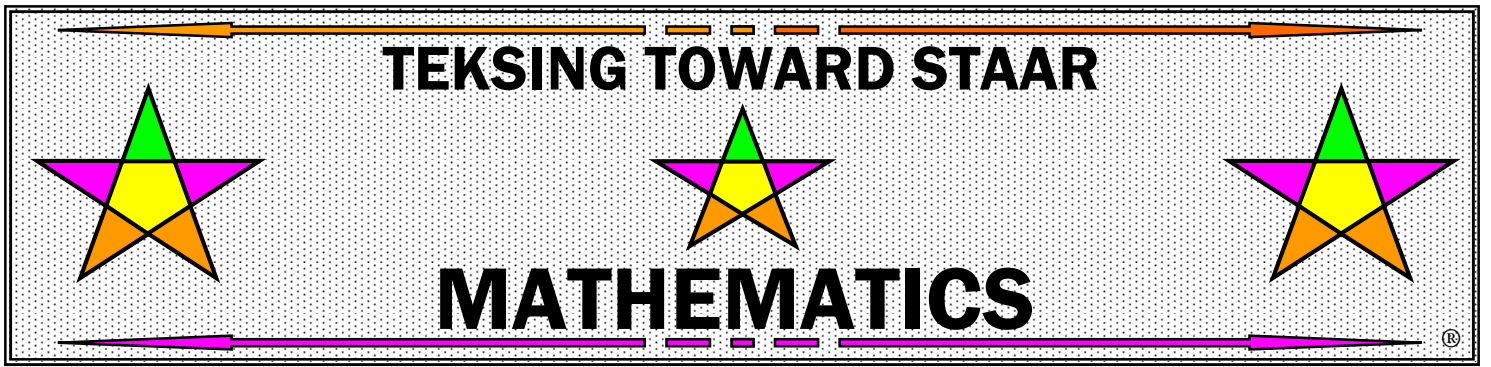
These Blueprint Assessments were created to provide teachers with assessments that include the same number of questions as the actual STAAR assessment. Blueprint Assessment 1 and Blueprint Assessment 2 give teachers the opportunity to assess the TEKS assessed on STAAR, as well as an opportunity to assess 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 6 Mathematics Blueprint released from the TEA in January 2014:

- 60% - 65% of the questions will assess Readiness Standards – 31-34 of 52 total questions
- 35% - 40% of the questions will assess Supporting Standards – 18-21 of 52 total questions
- 48 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 6

STAAR

Blueprint

Assessment 1

TEKSING TOWARD STAAR
Mathematics Blueprint Assessment 1
Grade 6

Teacher Notes:

The following information is from the STAAR Grade 6 Mathematics Blueprint released from the TEA in January 2014:

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This Blueprint Assessment has been designed with the above information in mind and includes 52 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 6 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 6
Answer Key, Category/Standard and TEKS Correlation

Question	Answer	Category/ Standard	TEKS	Question	Answer	Category/ Standard	TEKS
1	A	1/Supporting	6.7C	27	32	2/Readiness	6.5B
2	J	2/Readiness	6.3D	28	J	1/Readiness	6.7A
3	45	3/Readiness	6.8D	29	B	2/Supporting	6.9A
4	F	4/Readiness	6.12D	30	H	4/Supporting	6.12A
5	C	1/Supporting	6.2B	31	A	2/Readiness	6.3E
6	G	2/Readiness	6.4B	32	H	1/Supporting	6.5C
7	B	4/Supporting	6.14C	33	D	3/Readiness	6.11A
8	H	4/Readiness	6.12C	34	G	2/Supporting	6.10B
9	A	1/Supporting	6.2C	35	D	4/Readiness	6.12D
10	G	2/Supporting	6.3B	36	H	1/Readiness	6.7A
11	D	3/Readiness	6.4H	37	D	2/Supporting	6.3C
12	J	1/Readiness	6.2D	38	140	3/Readiness	6.8D
13	B	2/Supporting	6.4A	39	C	2/Readiness	6.10A
14	G	3/Supporting	6.8A	40	G	1/Readiness	6.7D
15	C	2/Readiness	6.3D	41	D	2/Readiness	6.3D
16	F	1/Readiness	6.4G	42	G	4/Readiness	6.12C
17	A	2/Supporting	6.5A	43	C	4/Supporting	6.14G
18	13	4/Readiness	6.13A	44	F	1/Readiness	6.2D
19	A	2/Readiness	6.6C	45	A	2/Readiness	6.10A
20	J	1/Readiness	6.7A	46	G	4/Supporting	6.12B
21	B	2/Supporting	6.6A	47	B	2/Readiness	6.3E
22	H	2/Readiness	6.5B	48	H	1/Readiness	6.4G
23	C	1/Supporting	6.4E	49	D	2/Readiness	6.6C
24	G	2/Supporting	6.3C	50	J	3/Readiness	6.4H
25	A	3/Supporting	6.8B	51	C	4/Readiness	6.13A
26	H	3/Supporting	6.8D	52	F	1/Supporting	6.2A

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 6

1. Look at this pair of expressions.

$$2(x + 1) + 2 \text{ and } x + (x + 5) - 1$$

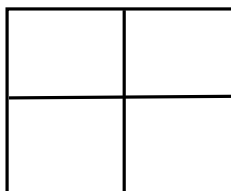
Which of the following statements is true about these two expressions?

- A** The two expressions are equivalent because they will both have a value of $2x + 4$ when simplified.
- B** The two expressions are not equivalent because one will be $2x + 6$ when simplified and the other is $2x + 4$.
- C** The two expressions are not equivalent because one has an x and the other a $2x$.
- D** The two expressions are not equivalent because one will be $2x + 5$ when simplified and the other is $2x + 4$.

2. Maria makes a withdrawal of \$23 from her savings account every week for 6 weeks. If this is the only change in her account during this time, which of the following best represents the change in her savings account?

- F** \$29
- G** -\$29
- H** \$138
- J** -\$138

3. Marcie is running for class president. She designed some campaign posters on a 24-inch by 30-inch poster board. She divided the poster board into 4 equal parts as shown below. She wrote her different reasons for why she should be president in each part.



What is the area of one of the smaller parts in square inches?

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

+	0	0	0	0	.	0	0		
-	1	1	1	1		1	1		
	2	2	2	2		2	2		
	3	3	3	3		3	3		
	4	4	4	4		4	4		
	5	5	5	5		5	5		
	6	6	6	6		6	6		
	7	7	7	7		7	7		
	8	8	8	8		8	8		
	9	9	9	9		9	9		

TEKSING TOWARD STAAR
Mathematics Blueprint Assessment 1
Grade 6

4. A bag contained colored tiles. The bag contained 18 red, 12 yellow, 25 blue, and 45 green tiles. Which relative frequency table best represents the data?

F

Color	Relative Frequency
Red	18%
Yellow	12%
Blue	25%
Green	45%

H

Color	Relative Frequency
Red	36%
Yellow	24%
Blue	50%
Green	90%

G

Color	Relative Frequency
Red	12%
Yellow	18%
Blue	45%
Green	25%

J

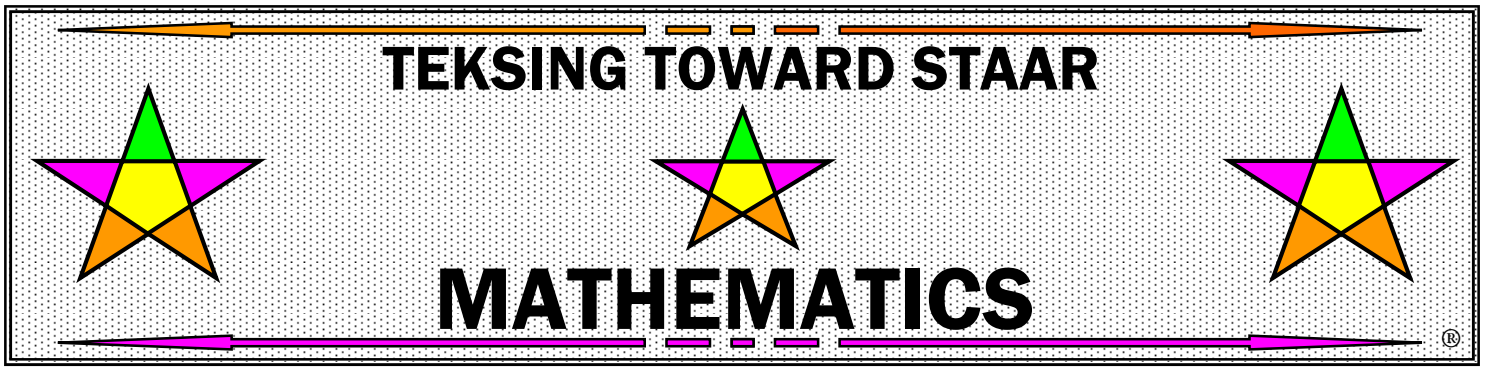
Color	Relative Frequency
Red	9%
Yellow	6%
Blue	12.5%
Green	22.5%

5. Which of the following does **not** represent a set of numbers and their opposites?

- A** $\{-3, -6, 3, 6\}$
B $\{-1.5, 0, 1.5\}$
C $\{-6, -8, 3, 6, 8\}$
D $\{-\frac{3}{8}, -5, \frac{3}{8}, 5\}$

6. At Hudson Middle School, 2 out of every 5 students brings their lunch to school each day. If the school has 245 students, how many students bring their lunch to school each day?

- F** 49
G 98
H 55
J 105



GRADE 6

STAAR

Blueprint Assessment 2

TEKSING TOWARD STAAR
Mathematics Blueprint Assessment 2
Grade 6

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TEKSING TOWARD STAAR
Mathematics Blueprint Assessment 2
 Grade 6
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Mathematics Blueprint Assessment 2
Grade 6

1. Which two expressions each represent $\frac{16}{12}$?

A $12 \overline{)16}$ and $12 \div 16$

B $16 \overline{)12}$ and $16 \div 12$

C $12 \overline{)16}$ and $16 \div 12$

D $16 \overline{)12}$ and $12 \div 16$

2. Mike bought bags of fertilizer for his lawn, which measures 2,100 square feet. A bag of fertilizer costs \$16.97, including tax, and covers about 690 square feet. About how much did he spend for the fertilizer?

F \$51 because $2100 \div 700 = 3$ and $3 \times \$17 = \51

G \$60 because $2100 \div 600 = 3.5$ and $3.5 \times \$17 = \59.50 which is about \$60

H \$20 because $2100 \div 700 = 3$ and $3 + \$17 = \20

J Not Here

3. Jimmy runs the 50-yard dash in track. How many feet are in 50 yards?

A $16\frac{2}{3}$

B 105

C 1,500

D 150

4. Leroy scored 85, 84, 89, and 90 on four of his history tests this six weeks. Which could be the score on his fifth test if the range of his 5 scores is 7?

F 84

G 88

H 91

J 92

TEKSING TOWARD STAAR
Mathematics Blueprint Assessment 2
Grade 6

5. Martha kept a record of the change in her time in swimming 100 meters the last five days. The change in her time is based on her time in the last meet.

Change in Swim Time

Day	Change in Seconds
Monday	1.08
Tuesday	-0.85
Wednesday	0.54
Thursday	-0.68
Friday	0.73

These times will be ordered from greatest to least. Which list of days matches this order?

- A** Monday, Tuesday, Wednesday, Thursday, Friday
- B** Monday, Friday, Wednesday, Thursday, Tuesday
- C** Tuesday, Monday, Friday, Wednesday, Thursday
- D** Friday, Wednesday, Thursday, Tuesday, Monday

-
6. Stella played a game where she drew five cards from a set of cards.

-6	4	3	-8	5
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Her score will be the sum of the five cards. What is Stella's score?

- F** 26
- G** -4
- H** -2
- J** 2

-
7. Sharon is researching career possibilities. She found that an air traffic controller requires an associate's degree and on-the-job training. The annual median salary is \$122,530 a year. She also found that a nurse practitioner requires a bachelor's degree in nursing and a masters or doctorate in nursing. The annual median salary is \$89,960 a year. In 20 years, how much more would an air traffic controller earn than a nurse practitioner?

- A** \$551,400
- B** \$32,570
- C** \$651,400
- D** \$2,450,600