STAAR™ Modified

State of Texas Assessments of Academic Readiness Modified

MATHEMATICS
Grade 7

Modified

2011 Released Test Questions

These released test questions represent how the modification process can be applied to the 2011 STAAR Released Test Questions. Not every STAAR released test question has been modified. These test questions are samples only and do not represent all the TEKS student expectations from each reporting category eligible for assessment. Nor do they represent all the ways in which a test question can be modified.

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1 The names of three students and their scores on their last science test are shown in the table below.

Science Test Scores

Student	Score
Gretchen	$\frac{21}{25}$
Héctor	$\frac{23}{25}$
Isabella	$\frac{22}{25}$

Which student earned a score of 92%?

A Gretchen

B Héctor

C Isabella

2 Mr. Franklin asked each of his 30 students to select their favorite radio station.

- $\frac{1}{3}$ of the students chose Station K.
- The remaining students chose Station M.

How many students chose Station M as their favorite radio station?

A 10

B 20

C 27

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3 A generator can run for 10 hours on 4 gallons of gasoline. If the gasoline costs $3 per gallon, which of these is closest to the cost per hour to run the generator?

A $12.00

B $1.20

C $0.83

4 A 24,000-gallon pool is being filled at a rate of 40 gallons per minute. At this rate, how many minutes will it take to fill this pool $\frac{1}{2}$ full?

A 300 minutes

B 560 minutes

C 600 minutes

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5 Which situation is best represented by the equation below?

$$x = \frac{27}{3}$$

A The total cost of a dinner and tip was $27. If a $3 tip was included in the total cost, what is x, the cost of the dinner?

B Three friends went to dinner, and each paid $27. What is x, the total amount they spent on dinner?

C Three friends went to dinner and paid a total of $27. If they divided the bill evenly, what is x, the amount each friend paid?

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6 A triangle has 2 angles that each measure 45°. Which of these describes this triangle?

A Right scalene

B Right isosceles

C Equilateral

7 Which statement is true?

A All isosceles triangles are similar.

B All equilateral triangles are similar.

C All rectangles are similar.

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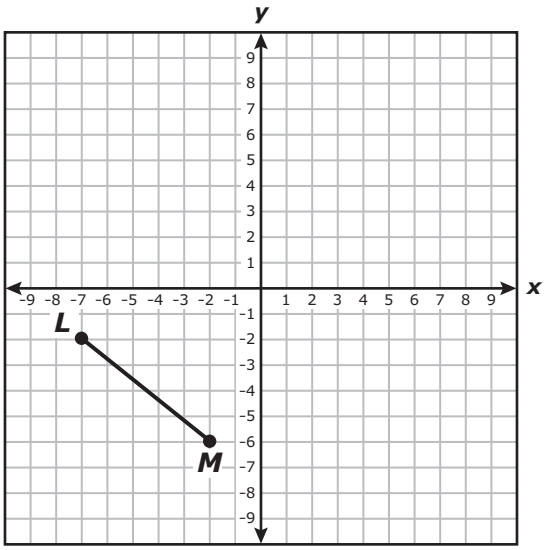
8 Line segment *LM* is shown on the coordinate grid below.



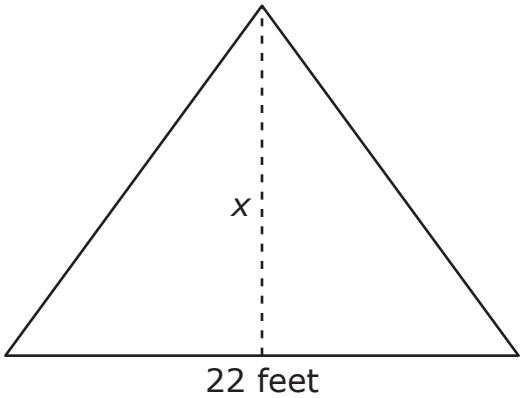
If line segment *LM* is reflected across the *y*-axis, which of these best represents the reflection of point *M*?

A (2, −6)

B (−7, 2)

C (−2, 6)

9 The side view of a sail on a boat is shown below. The base of the sail is 22 feet long, and the area of the sail is 165 square feet.



$$A = \frac{1}{2}bh$$

$$\text{Area of a triangle} = \frac{1}{2} \cdot \text{base} \cdot \text{height}$$

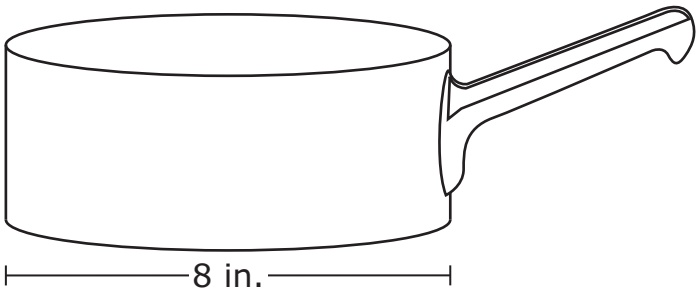
What is x, the height of the sail?

A 15 feet

B 11 feet

C 30 feet

10 A pan in the shape of a cylinder has the dimension shown below.



A formula for the volume of a cylinder is $V = Bh$. Which equation best represents B, the area of the circular base of this pan in square inches?

A $B = \pi(4)^2$

B $B = \pi(8)^2$

C $B = 2\pi(8)$

11 A DVD player is in the shape of a rectangular prism. It has a length of 17 inches, a width of 10 inches, and a height of 2 inches.

$$V = lwh$$

Volume of a rectangular prism = length · width · height

What is the volume of the DVD player in cubic inches?

You may practice recording your answer in the grid below.

			•
⓪	⓪	⓪	
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

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

Item Number	Reporting Category	Readiness or Supporting	Content Student Expectation	Process Student Expectation	Correct Answer
1	1	Readiness	7.1(B)		B
2	1	Readiness	7.2(B)	7.13(C)	B
3	1	Supporting	7.2(D)	7.13(B)	B
4	2	Readiness	7.3(B)	7.13(A)	A
5	2	Readiness	7.5(B)	7.14(A)	C
6	3	Supporting	7.6(B)	7.13(C)	B
7	3	Readiness	7.6(D)	7.14(A)	B
8	3	Readiness	7.7(B)	7.13(D)	A
9	4	Readiness	7.9(A)	7.13(B)	A
10	4	Supporting	7.9(B)	7.14(A)	A
11	4	Readiness	7.9(C)		340

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