



Grade 7 FAST Mathematics

2026 Released Test Items

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Introduction

[Section 1008.22\(8\)](#), Florida Statutes (F.S.), requires the Department to publish each statewide, standardized assessment administered, excluding retakes, at least once on a triennial basis, with the initial publication occurring after the Spring 2024 test administration. The initial publication of assessments was required to include, at a minimum, the grade 3 Mathematics and English Language Arts (ELA) Reading assessments, the grade 10 ELA Reading assessment and the Algebra 1 End-of-Course (EOC) Assessment. Per statute, released content must have appeared on tests in the administration year immediately preceding release. Based on those requirements, below is a proposed timeline for the release of operational tests beginning with the 2023–24 school year.

June 2024	June 2025	June 2026
Grade 3 Mathematics & ELA Reading	Grade 5 Mathematics & ELA Reading	Grade 4 Mathematics & ELA Reading
Grade 6 Mathematics & ELA Reading	Grade 8 Mathematics & ELA Reading	Grade 7 Mathematics & ELA Reading
Grade 8 Science	Grade 5 Science	Biology 1 EOC
Grade 10 ELA Reading	Grade 9 ELA Reading	
Algebra 1 EOC	Geometry EOC	
Civics EOC	U.S. History EOC	
Annually: Grades 4–10 Writing prompts and individual student responses		

The purpose of the released tests is to promote transparency in the statewide, standardized assessment program and to increase the comfort level of students and parents with the state assessments. Students, parents, and teachers should use the released tests to better understand the types of items on Florida’s K–12 statewide assessments.

Each released test will include content that represents an operational test blueprint for each respective assessment. The released tests can also be used to illustrate the length of an operational test and the range of difficulties of the questions on that test.

Each released test will include an answer key, the percentage of students that answered that item correctly, the item’s reporting category, and the item benchmark information.

Released tests can be accessed through the Sample Items card on the [Florida Statewide Assessments Portal](#).

For more information about K–12 assessments, please visit <https://www.fldoe.org/accountability/assessments/k-12-student-assessment/>.

For questions related to this document or released tests in general, please contact Assessment@fldoe.org.

1. An equation of a proportional relationship is shown.

$$y = 2x$$

Which table represents the relationship?

Ⓐ

x	0	2	4
y	0	1	2

Ⓒ

x	0	1	2
y	2	4	6

Ⓑ

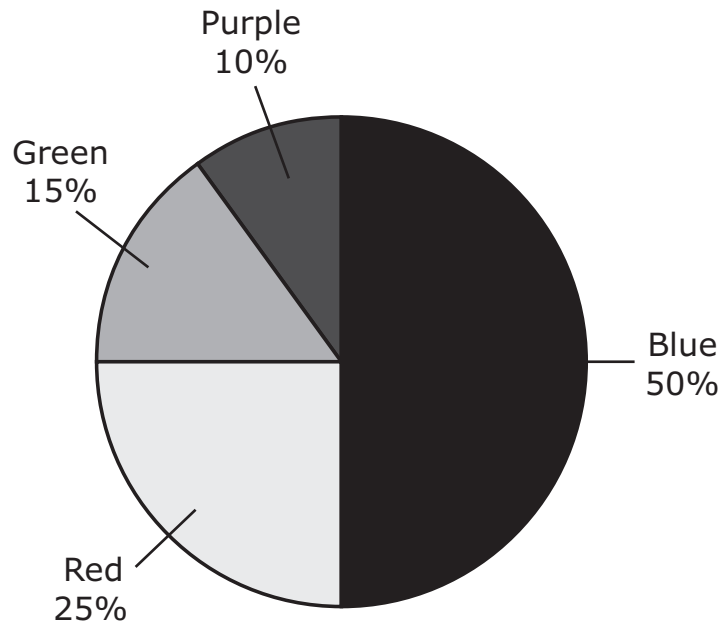
x	0	1	2
y	0	2	4

Ⓓ

x	0	1	2
y	2	4	8

2. In Xander's school club, students vote for their favorite colors. The students' data are shown in the circle graph.

Students' Favorite Colors

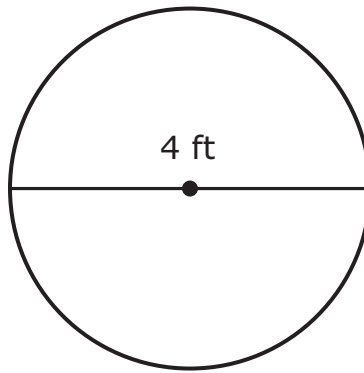


Xander knows that 6 students voted for green.

What is the total number of students who voted?

- Ⓐ 15
- Ⓑ 20
- Ⓒ 34
- Ⓓ 40

3. A circle has a diameter of 4 feet (ft), as shown.



What is the circumference, in feet, of the circle? Round your answer to the nearest tenth.

←	→	↶	↷	✖	✓
1	2	3			
4	5	6			
7	8	9			
	0				
.	-	$\frac{\Box}{\Box}$			

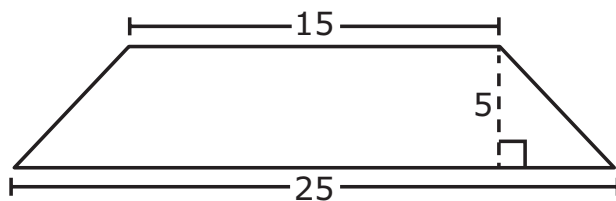
4. An expression is shown.

$$\frac{(7^3)^2 \cdot (3^2)^3}{(3 \cdot 7)^4 \cdot 7^2}$$

What is the value of the expression?

- Ⓐ $\frac{3}{7}$
- Ⓑ 9
- Ⓒ $\frac{81}{7}$
- Ⓓ 63

5. A trapezoid, with dimensions in units, is shown.



What is the area, in square units, of the trapezoid?

- Ⓐ 50
- Ⓑ 100
- Ⓒ 125
- Ⓓ 200

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6. Liam rolls a fair 10-sided die. The faces are numbered 1 through 10.

What is the theoretical probability that Liam rolls an 8 or higher? Express your answer as a fraction or a decimal.

←

→

↶

↷

✖

✓

1	2	3
4	5	6
7	8	9
	0	
.	-	$\frac{\Box}{\Box}$

7. An inequality is shown.

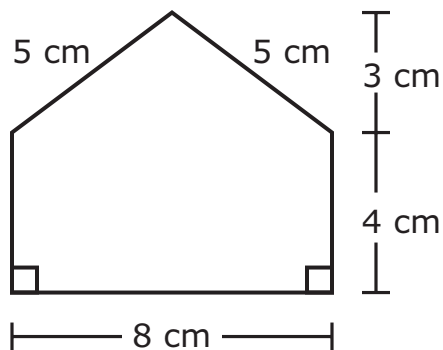
$$6 < x + 4$$

What is the solution to the inequality?

- Ⓐ $x > 2$
- Ⓑ $x < 2$
- Ⓒ $x > 10$
- Ⓓ $x < 10$

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8. Jada makes gingerbread cookies in the shape of a house. The dimensions, in centimeters (cm), of one cookie are shown.



What is the area, in square centimeters, of one cookie?

- Ⓐ 39.5
- Ⓑ 44
- Ⓒ 52
- Ⓓ 56

9. A spinner has five sections that are each a different color. The probability of the spinner arrow stopping on each of the colors is shown.

$$\begin{aligned}P(\text{blue}) &= 0.1 \\P(\text{green}) &= 0.19 \\P(\text{purple}) &= 0.03 \\P(\text{red}) &= 0.18 \\P(\text{yellow}) &= 0.5\end{aligned}$$

Which statement is true?

- Ⓐ It is least likely for the arrow to land on blue.
- Ⓑ It is less likely for the arrow to land on red than on blue.
- Ⓒ It is more likely for the arrow to land on blue than on green.
- Ⓓ It is equally likely and unlikely for the arrow to land on yellow.

- 10.** A hotel owner increases the price of a room from \$139 per night to \$174 per night.

By about what percentage did the hotel owner increase the price of the room?

- Ⓐ 20%
- Ⓑ 25%
- Ⓒ 35%
- Ⓓ 50%

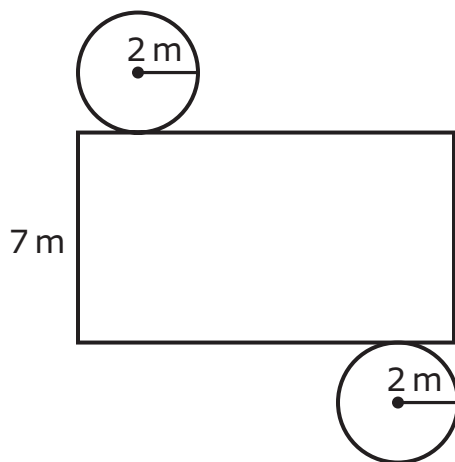
- 11.** An architect creates a drawing in which a rectangular deck is 11 inches long and 6 inches wide. The drawing is at a scale of 1 inch = 2 feet.

What is the actual area, in square feet, of the deck?

←
→
↶
↷
✖
✓

1	2	3
4	5	6
7	8	9
	0	
.	-	$\frac{\square}{\square}$

- 12.** The net of a right circular cylinder is shown, with a radius of 2 meters (m) and a height of 7 meters.



Which expression can be used to find the surface area, in square meters, of the cylinder?

- Ⓐ $\pi(2)^2 + 2\pi(2)(7)$
- Ⓑ $\pi(4)^2 + 2\pi(4)(7)$
- Ⓒ $2\pi(2)^2 + 2\pi(2)(7)$
- Ⓓ $2\pi(4)^2 + 2\pi(4)(7)$

13. Which expression is equivalent to $2.4(7.5 + 10p) - 15p$?

- Ⓐ $27p$
- Ⓑ $18 - 5p$
- Ⓒ $18 + 9p$
- Ⓓ $18 - 12p$

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14. Jon's music player picks 100 songs at random. He records the genres of the songs in the table shown.

Genre	Number of Songs
Country	23
Hip-Hop	13
Pop	27
Rock	37

Based on the table, what is the experimental probability that the music player will pick a rock song? Express your answer as a fraction or a decimal.

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↶

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✖

✓

1

2

3

4

5

6

7

8

9

0

.

-

$\frac{\square}{\square}$

15. Six more than one-half of x is equal to 16.

Which equation models this description?

Ⓐ $\frac{1}{2}x + 6 = 16$

Ⓑ $6x + \frac{1}{2} = 16$

Ⓒ $\left(\frac{1}{2} + 6\right)x = 16$

Ⓓ $6\left(x + \frac{1}{2}\right) = 16$

16. Marcus and Shelly both rewrite $1.\bar{5}$ as a fraction.

- Marcus claims $1.\bar{5} = \frac{15}{10}$ because $1.\bar{5} = 1 + \frac{5}{10} = \frac{15}{10}$.
- Shelly claims $1.\bar{5} = \frac{14}{9}$ because $1.\bar{5} = 1 + \frac{5}{9} = \frac{14}{9}$.

Which statement describes who is correct?

- Ⓐ Shelly is correct because $0.\bar{5}$ is equivalent to $\frac{5}{9}$.
- Ⓑ Marcus is correct because $0.\bar{5}$ is equivalent to $\frac{5}{10}$.
- Ⓒ Neither Marcus nor Shelly is correct because $0.\bar{5}$ is not equivalent to $\frac{5}{10}$ or $\frac{5}{9}$.
- Ⓓ Both Marcus and Shelly are correct because $0.\bar{5}$ is equivalent to both $\frac{5}{10}$ and $\frac{5}{9}$.

- 17.** Josiah records the time, in minutes (min), after he begins to fill his fish tank and the amount of water, in gallons (gal.), in the tank as he fills it. He finds the relationship to be proportional.

Which table could represent Josiah's data?

Josiah's Fish Tank

Ⓐ

Water in Tank (gal.)	2	6	12
Time After Start (min)	8	12	16

Josiah's Fish Tank

Ⓑ

Water in Tank (gal.)	3	7	11
Time After Start (min)	5	20	35

Josiah's Fish Tank

Ⓒ

Water in Tank (gal.)	4	12	20
Time After Start (min)	3	9	15

Josiah's Fish Tank

Ⓓ

Water in Tank (gal.)	5	10	20
Time After Start (min)	4	12	36

- 18.** A factory manufactures 12,000 light bulbs per day. In a random sample of 200 light bulbs, 3 are broken.

Based on the sample, how many light bulbs should the factory expect to be broken each day?

- Ⓐ 3
- Ⓑ 60
- Ⓒ 180
- Ⓓ 203

- 19.** Bobby sells 3-pound bags of peaches. He sells each 3-pound bag for \$7.50 and wants to earn \$900.

If he sells 45 pounds of peaches per hour, how many hours will it take Bobby to earn \$900?

←

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↶

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✖

✓

1	2	3
4	5	6
7	8	9
	0	
.	-	$\frac{\Box}{\Box}$

- 20.** How many pounds are in 9 kilograms? Round your answer to the nearest tenth.

←

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↶

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✖

✓

1	2	3
4	5	6
7	8	9
	0	
.	-	$\frac{\square}{\square}$

- 21.** An elevator is below the first floor of a hotel at an elevation of -10.42 feet. The elevator travels to the top floor, which has an elevation of 156.53 feet.

What is the change in elevation, in feet, of the elevator?

- Ⓐ 15.02
- Ⓑ 146.11
- Ⓒ 166.95
- Ⓓ 1631.04

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- 22.** The cost of 1.75 pounds of cheese is \$9.87. The cost of the cheese is proportional to its weight.

What is the cost, in dollars, for each pound of cheese?

\$

					
1	2	3			
4	5	6			
7	8	9			
	0				
.	-	$\frac{\square}{\square}$			

23. Six more than n is less than 14.

Which inequality models this situation?

- Ⓐ $6n < 14$
- Ⓑ $6n > 14$
- Ⓒ $n + 6 < 14$
- Ⓓ $n + 6 > 14$

24. A circle has a circumference of 278 inches.

What is the best approximation for the radius, in inches, of the circle?

- Ⓐ 22.1
- Ⓑ 44.2
- Ⓒ 69.5
- Ⓓ 88.5

25. Ester has a bag with different-colored marbles. The quantity of each marble color is shown in the table.

Marbles

Color	Quantity
Orange	10
Purple	8
Green	6

Ester randomly selects a marble from the bag.

What is the probability that Ester will select a green marble?

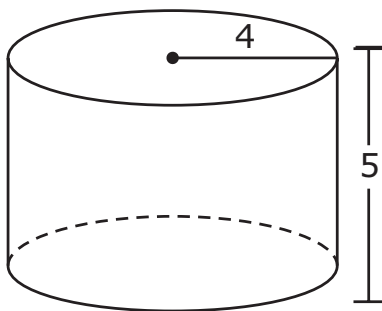
- Ⓐ $\frac{1}{8}$
- Ⓑ $\frac{1}{6}$
- Ⓒ $\frac{1}{4}$
- Ⓓ $\frac{1}{3}$

26. What is the value of $\frac{3^5}{3^4} \cdot 3^3$?

←
→
↶
↷
✖
✓

1	2	3
4	5	6
7	8	9
	0	
.	-	$\frac{\square}{\square}$

27. A right circular cylinder, with dimensions in units, is shown.



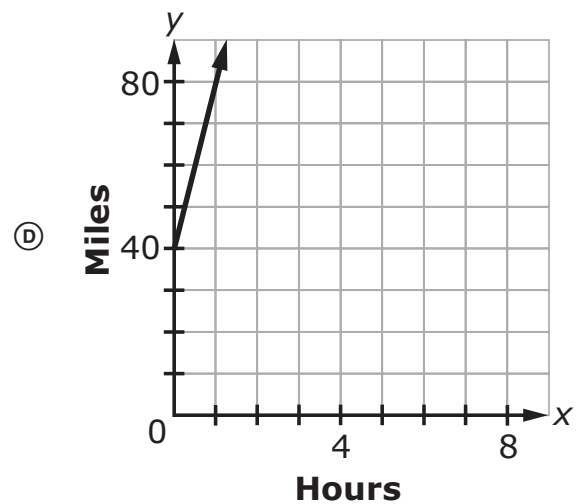
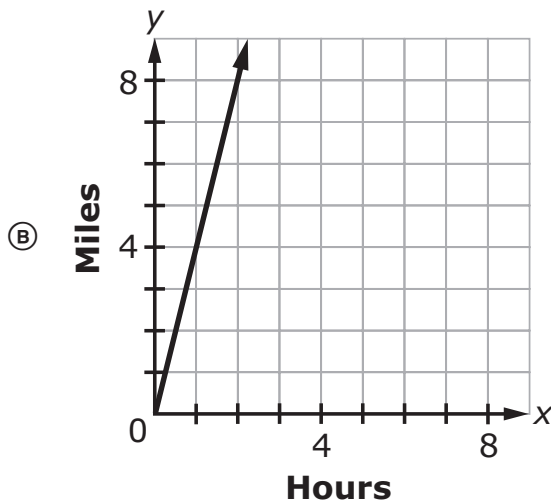
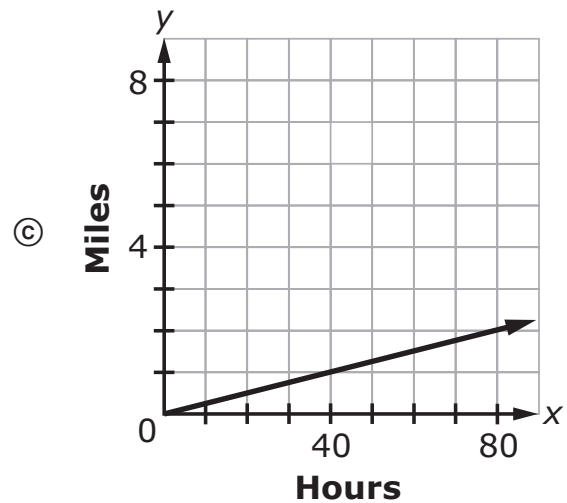
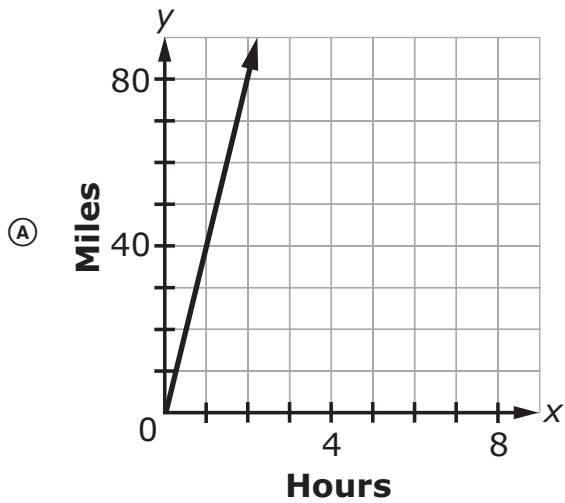
What is the volume, in cubic units, of the cylinder?

- Ⓐ 20π
- Ⓑ 40π
- Ⓒ 80π
- Ⓓ 100π

28. The number of hours driven, x , is proportional to the number of miles traveled, y , as shown in the table.

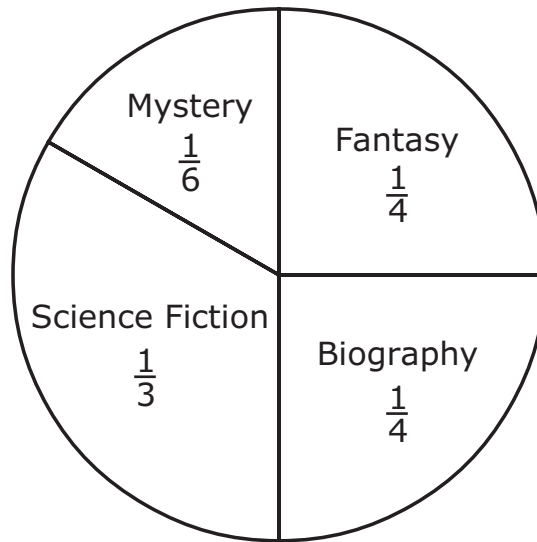
x	0	1	2
y	0	40	80

Which graph represents the proportional relationship?



29. A publishing company surveys 192 students to determine their favorite types of books. The company's data are represented by the graph shown.

Favorite Types of Books



How many students responded that their favorite type of book is mystery?

←

→

↶

↷

✖

✓

1	2	3
4	5	6
7	8	9
	0	
.	-	$\frac{\square}{\square}$

- 30.** Jayce and Alberto both play on the basketball team. They record the number of points they each scored in the last 5 games to create the data sets shown.

Jayce: {20, 16, 12, 14, 13}

Alberto: {17, 11, 19, 10, 18}

Complete the statements to describe a comparison of the means of the two data sets. For each blank, fill in the bubble **before** the number or phrase that is correct.

The difference between the means of the data sets is [☐ A 0 ☐ B 1 ☐ C 3 ☐ D 8] .

This indicates that Jayce scored [☐ A fewer points than ☐ B more points than ☐ C the same number of points as] Alberto on average per game.

- 31.** An architect makes a scale drawing of a garage. The garage is 6.2 meters wide. In the scale drawing, the garage is 3.1 centimeters wide.

Enter a value to show the scale the architect uses to make the drawing.

1 centimeter :

meters

32. Which table shows a proportional relationship between x and y ?

Ⓐ

x	0	2	4	6
y	0	3	6	9

Ⓑ

x	0	2	4	6
y	5	5	5	5

Ⓒ

x	0	2	4	6
y	1	2	3	4

Ⓓ

x	0	2	4	6
y	0	2	4	8

33. An expression is shown.

$$6 \cdot [(3^3 - 5^2)^2 + 3]$$

What is the value of the expression?

←

→

↶

↷

✖

✓

1	2	3
4	5	6
7	8	9
	0	
.	-	$\frac{\Box}{\Box}$

- 34.** Tory has a deck of cards with different letters on them. The letters are A, E, I, O, U, T, R, and Y. She draws a card at random one time.

Which event can be represented by $P(\text{event}) = 0$?

- Ⓐ drawing a Y
- Ⓑ drawing a vowel
- Ⓒ drawing a number
- Ⓓ drawing a card with a letter from her name

35. What is the product of $\frac{4}{5}$ and -3.1 ?

					
1	2	3			
4	5	6			
7	8	9			
	0				
.	-	$\frac{\square}{\square}$			

36. An expression is shown.

$$3(0.74x - 1.2) + 1.95$$

Which expression is equivalent?

- Ⓐ $2.22x + 0.75$
- Ⓑ $2.22x - 1.65$
- Ⓒ $3.74x - 2.25$
- Ⓓ $3.74x + 3.75$



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