

**FAST Test Prep**

1. Find the quotient. Write your answer as a decimal.

$$-7.7 \div (-2.2) = \square$$

Grade 7: MRL>Chapter 2>2.3-2.5 Quiz> Question #4

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2. Find the sum. Write your answer in simplest form as a fraction or mixed number.

$$-\frac{7}{4} + \frac{5}{8} = \square$$

Grade 7: MRL>Chapter 1>Mid Chapter Quiz> Question #5

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3. Find the sum. Write your answer as a decimal.

$$-7.33 + (-7.6) = \square$$

Grade 7: MRL>Chapter 1>Mid Chapter Quiz> Question #6

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4. Find the distance between  $(-4.3, 5)$  and  $(-2.6, 5)$  in a coordinate plane. Write your answer as a decimal.

unit(s)

Grade 7: MRL>Chapter 1>End Chapter Quiz> Question #7

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5. Find the difference.

$$\left(\frac{2}{7}x - 6\right) - \left(\frac{1}{7}x - 5\right) = \square$$

Grade 7: MRL>Chapter 3>Mid Chapter Quiz> Question #5

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6. Simplify  $\frac{1}{5}(10x - 15) + 3x$ .

$$\frac{1}{5}(10x - 15) + 3x = \square$$

Grade 7: MRL>Chapter 3>3.3-3.4 Quiz> Question #1

7. Identify the terms, coefficients, and constants in the expression  $8x + 6$ .

<b>Terms</b>	
<b>Coefficients</b>	
<b>Constants</b>	

⚡  $8x$

⚡  $6$

⚡  $8$

Grade 6: MRL>Chapter 5>5.1-5.2 Quiz> Question #1

8. Write the phrase as an expression.

23 more than a number  $a$

An expression is .

Grade 6: MRL>Chapter 5>Practice Test> Question #4

9. Factor the expression  $8x + 12$  using the GCF.

$$8x + 12 = \square$$

Grade 6: MRL>Chapter 5>Practice Test> Question #9

10. Simplify the expression. Write your answer using decimals.

$$-4.5(r - 2) + 3.3 = \square$$

Grade 7: MRL>Chapter 3>Chapter Test> Question #7

11. The difference between two numbers is  $\frac{1}{3}$ . The greater number is  $b$ . Select an expression that represents the lesser number.

- ☐ Lesser number is equal to  $b + \frac{1}{3}$
- ☐ Lesser number is equal to  $b - \frac{1}{3}$
- ☐ Lesser number is equal to  $b \times \frac{1}{3}$

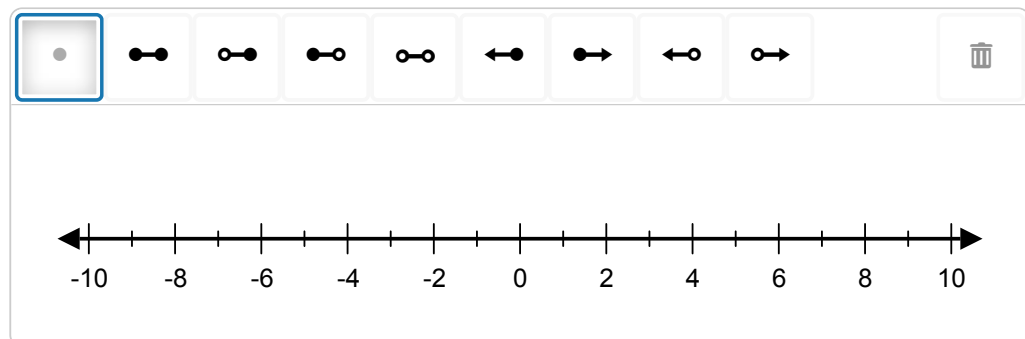
Grade 6 Accel: FL 2023>Chapter 6>Chapter 6: Chapter Test (1 - 19)> Question #18

12. Are the expressions  $4\left(\frac{3}{4}x - 2\right)$  and  $\frac{4}{3}(3x - 2) - x$  equivalent?

- ☐ Yes, both simplify to  $3x - 8$ .
- ☐ Yes, both simplify to  $4x - 8$ .
- ☐ No, one simplifies to  $3x - 8$  and the other to  $4x - 8$ .
- ☐ No, one simplifies to  $3x - 2$  and the other to  $4x - 8$ .

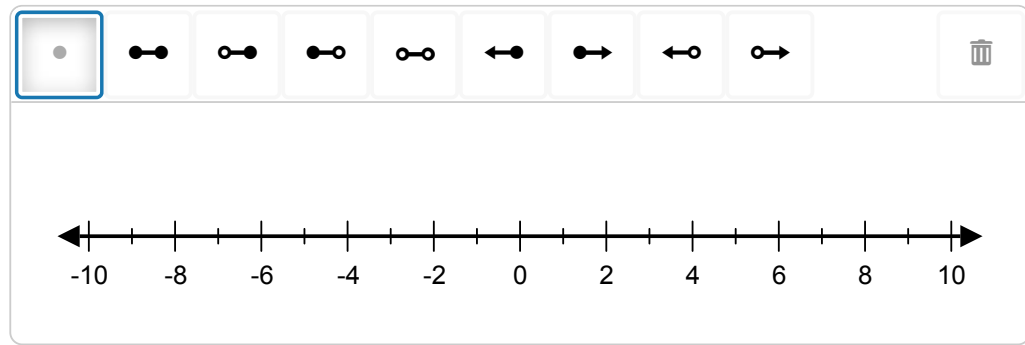
Grade 6 Accel: FL 2023>Chapter 6>Chapter 6: Chapter Test (1 - 19)> Question #12

13. Graph the solution of  $x - 2 \geq 4$ .



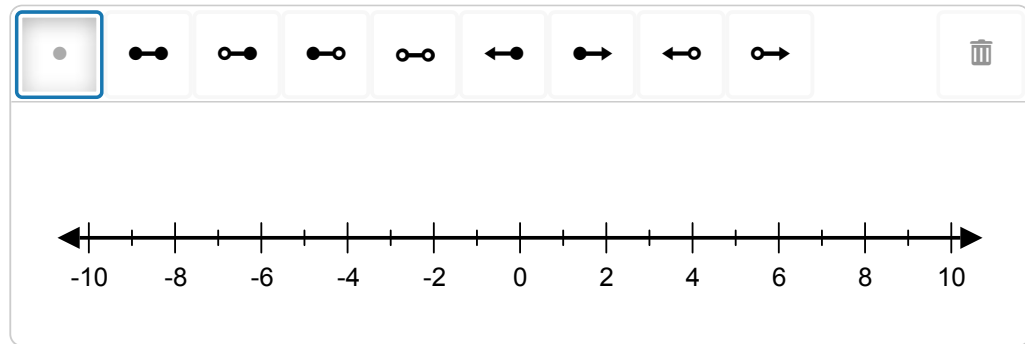
Grade 7: MRL>Chapter 4>End Chapter Quiz> Question #3

14. Graph the solution of  $2x < 18$ .



Grade 7: MRL>Chapter 4>End Chapter Quiz> Question #4

15. Graph the solution of  $x > 2$ .



Grade 6: FL 2023>Chapter 8>Chapter 8: End Quiz (1 - 8)> Question #6

16. Solve  $b - 12 = 20$ .

$b =$

Grade 6: MRL>Chapter 6>Mid Chapter Quiz> Question #5

17. Tell whether  $b = 11$  is a solution of  $-3 = 8 - b$ .

yes

no

Grade 6: FL 2023>Chapter 8>Chapter 8: Mid Quiz (1 - 8)> Question #3

18. Solve  $x - 10 = -4$ .

The solution is  $x =$  .

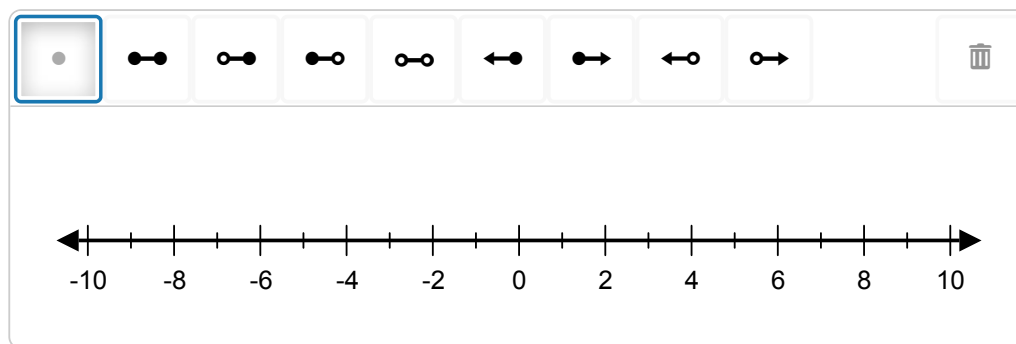
Grade 6: FL 2023>Chapter 8>Chapter 8: Mid Quiz (1 - 8)> Question #4

19. Your friend has  $s$  pennies. You have 11 pennies. You and your friend have a total of 23 pennies. Which equation can you use to find  $s$ ?

- ☐  $s + 11 = 23$   
☐  $11s = 23$   
☐  $s - 11 = 23$   
☐  $s \div 11 = 23$

Grade 6: MRL&gt;Chapter 6&gt;Chapter Test&gt; Question #2

20. Graph the solution of  $5x \leq 45$ .



Grade 7: MRL&gt;Chapter 4&gt;Practice Test&gt; Question #8

21. Solve  $15 = \frac{3p}{6}$ .

$p = \square$

Grade 6: MRL&gt;Chapter 6&gt;Chapter Test&gt; Question #6

22. Tell whether  $x = -4$  is a solution of  $16 = -8x$ .

yes

no

Grade 6: FL 2023&gt;Chapter 8&gt;Chapter 8: Chapter Test (1 - 15)

23. Write a unit rate for the situation.

**Situation:** 87 students in 3 classrooms

**Unit rate:**  students per classroom

Grade 6: MRL&gt;Chapter 3&gt;End Chapter Quiz&gt; Question #2

24. You earn \$42 for washing 7 cars. How much do you earn for washing 3 cars?

You earn \$  for washing 3 cars.

Grade 6: MRL>Chapter 3>End Chapter Quiz> Question #3

25. The tape diagram represents the ratio of your monthly allowance to your friend's monthly allowance. The monthly allowances total \$80. How much is each allowance?

You	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Friend	<input type="text"/>	<input type="text"/>	<input type="text"/>		

Your allowance is \$ , and your friend's allowance is \$ .

Grade 6: MRL>Chapter 3>Chapter Test> Question #2

26. a. Complete the ratio table.

<b>Sugar (cups)</b>	7	14	<input type="text"/>	28
<b>Milk (cups)</b>	6	<input type="text"/>	18	<input type="text"/>

- b. You have a recipe that indicates to use 7 parts of sugar for every 6 parts of milk. You use 28 cups of sugar. How much milk do you need?

You need  cups of milk.

Grade 6: MRL>Chapter 3>Practice Test> Question #3

27. The least common multiple of two whole numbers is 28. The ratio of the greater number to the lesser number is 7 : 2. What are the two numbers?

The greater number is  and the lesser number is .

Grade 6: MRL>Chapter 3>Chapter Test> Question #16

28. Solve the proportion.

$$\frac{2}{7} = \frac{14}{x}$$

$$x = \square$$

Grade 6 Accel: FL 2023>Chapter 8>Chapter 8: Chapter Test (1 - 15)> Question #9

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29. You bake cookies for a bake sale. The ratio of chocolate chip cookies to oatmeal cookies is 4 : 3. You bake 12 oatmeal cookies. How many chocolate chip cookies do you bake?

You bake  chocolate chip cookies.

Grade 6: MRL>Chapter 3>Chapter Test> Question #12

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30. Write the decimal as a percent.

$$0.02 = \square \%$$

Grade 7: MRL>Chapter 6>6.1-6.3 Quiz> Question #2

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31. 30% of what number is 30?

30% of  is 30.

Grade 7: MRL>Chapter 6>6.1-6.3 Quiz> Question #6

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32. Order the numbers from least to greatest.

$$\equiv 8\% \quad \equiv \frac{1}{25} \quad \equiv 0.05 \quad \equiv 0.4$$

Grade 6: MRL>Chapter 4>4.3-4.4 Quiz> Question #2

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33. 16.2 is what percent of 45?

16.2 is % of 45.

Grade 7: MRL>Chapter 6>6.1-6.3 Quiz> Question #7

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34. 79.2 is what percent of 110?

79.2 is % of 110.

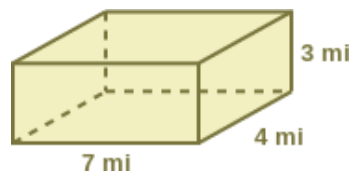
Grade 7: MRL>Chapter 6>Chapter Test> Question #7

35. 44 is 55% of what number?

44 is 55% of .

Grade 7: MRL>Chapter 6>Practice Test> Question #8

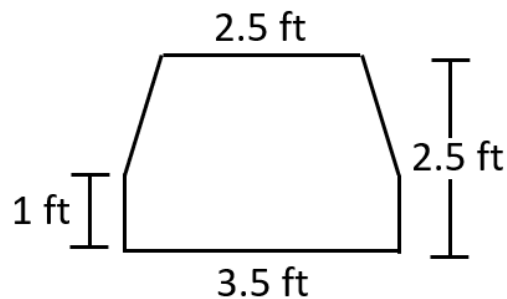
36. Find the surface area of the rectangular prism.



$S = \text{  } \text{mi}^2$

Grade 6: MRL>Chapter 7>7.4-7.7 Quiz> Question #2

37. A worker charges \$70 per square foot to install windows. How much does it cost to install the window shown?

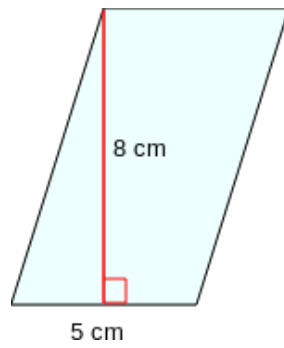


\$

Grade 6: MRL>Chapter 7>7.1-7.3 Quiz> Question #6



38. Find the area of the parallelogram.

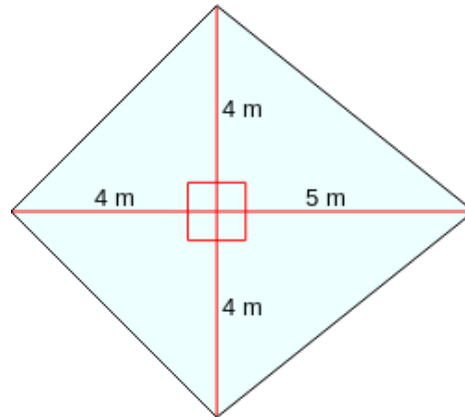


$$A = \square \text{ cm}^2$$

Grade 6: MRL>Chapter 7>Practice Test> Question #1

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39. Find the area of the kite.

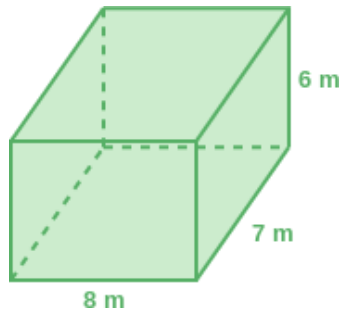


$$A = \square \text{ m}^2$$

Grade 6: MRL>Chapter 7>Chapter Test> Question #3

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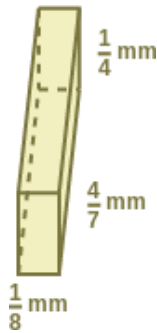
40. Find the surface area of the rectangular prism.



$$S = \boxed{\phantom{000}} \text{ m}^2$$

Grade 6: MRL>Chapter 7>Chapter Test> Question #7

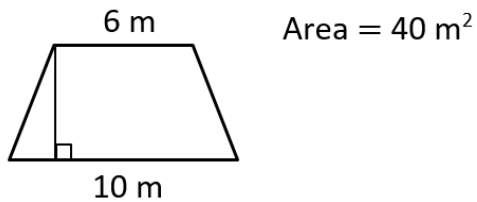
41. Find the volume of the prism. Write the answer as a fraction in simplest form.



$$V = \boxed{\phantom{000}} \text{ mm}^3$$

Grade 6: MRL>Chapter 7>Practice Test> Question #9

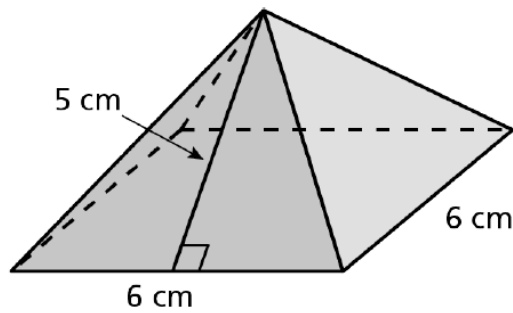
42. Find the height of the trapezoid.



$$\boxed{\phantom{000}} \text{ m}$$

Grade 6: MRL>Chapter 7>Practice Test> Question #11

43. Find the surface area of the solid.



Surface Area:   $\text{cm}^2$

Grade 6: FL 2023>Chapter 9>Chapter 9: Chapter Test (1 - 15)

44. Find the range of the data.

53, 8, 90, 78, 37

range =

Grade 6: MRL>Chapter 9>9.4-9.5 Quiz> Question #1

45. A group of seven sixth-graders measure and record their heights. The heights (in inches) are shown below.

54, 63, 55, 57, 59, 56, 62

Find the mean and the median of the heights.

The mean is  inches.

The median is  inches.

Grade 6: MRL>Chapter 9>9.1-9.3 Quiz> Question #3

46. The table shows the numbers of comments on several blog posts. How does the outlier affect the range and interquartile range of the data?

Comments				
14	17	32	19	16
18	20	15	15	19

- ☐ The outlier increases the range by 12 and increases the interquartile range by 4.  
☐ The outlier increases the range by 12 and does not affect the interquartile range.  
☐ The outlier decreases the range by 4 and decreases the interquartile range by 12.  
☐ The outlier does not affect the range and increases the interquartile range by 12.

Grade 6: MRL>Chapter 9>9.4-9.5 Quiz> Question #6

47. Identify the outlier in the data set.

88, 82, 88, 89, 84, 138, 83, 81, 83, 89, 86, 89

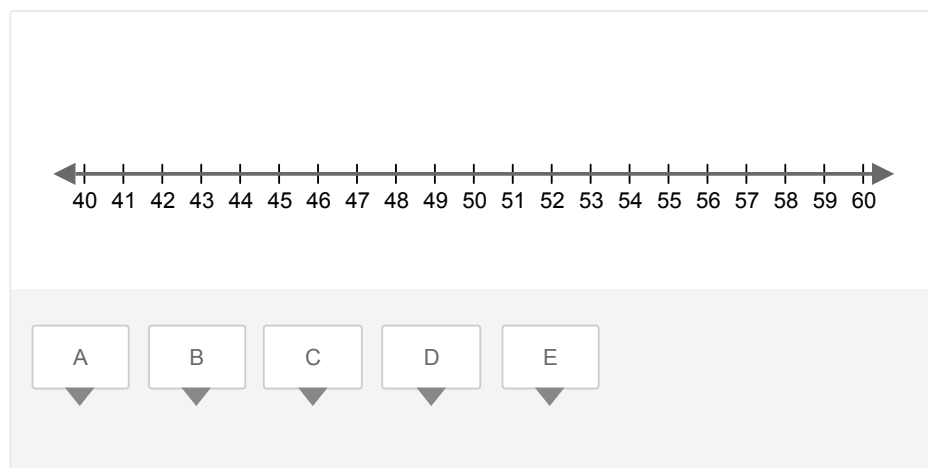
The outlier is .

Grade 6: MRL>Chapter 9>Chapter Test> Question #7

48. Use the number line to identify the least value, first quartile, median, third quartile, and greatest value of the data.

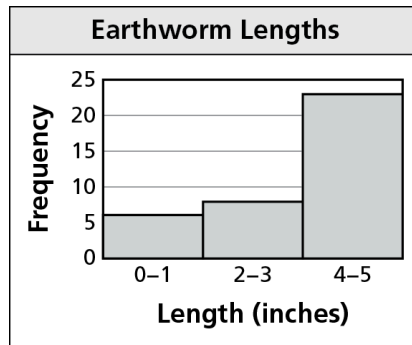
54, 46, 52, 56, 45, 47, 50, 43, 49, 49, 52

A = least value, B = first quartile, C = median, D = third quartile, E = greatest value



Grade 6: MRL>Chapter 10>Practice Test> Question #7

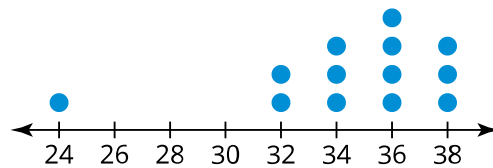
49. The histogram shows the lengths of earthworms in a terrarium. Which interval contains the most data values?



- ☐ 0 - 1 inch
- ☐ 2 - 3 inches
- ☐ 4 - 5 inches

Grade 6: MRL>Chapter 10>Chapter Test> Question #4

50. The dot plot shows the gas mileages (in miles per hour) of several vehicles made by a company.



The  the most appropriate measure(s) to describe the center.

The  the most appropriate measure(s) to describe the variation.

Grade 6 Accel: FL 2023>Chapter 11>Chapter 11: Chapter Test (1 - 13)> Question #8