

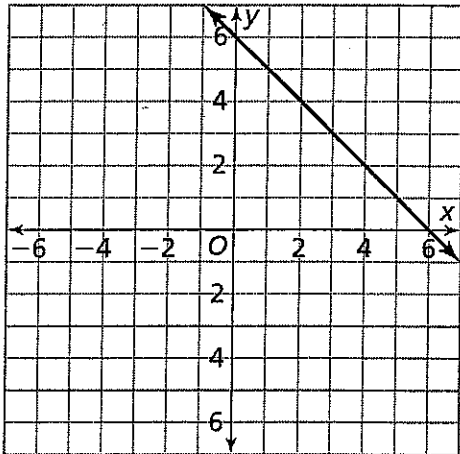
Study Guide both grade

Page 2

1. Caroline is making a triangular flag with a base of 10 inches and a height of 8 inches. What is the area of the flag?

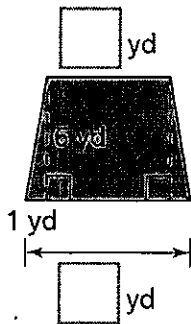
- (A) 18 in.² (C) 80 in.²
- (B) 40 in.² (D) 160 in.²

15. Which of the following equations was used to graph the line shown?



- (A) $y = 6 + x$
- (B) $y = 6 - x$
- (C) $y = x - 6$
- (D) $y = 6x$

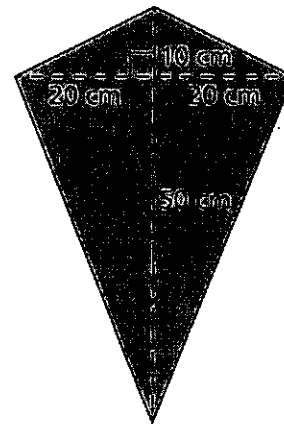
3. A playground has the shape of a trapezoid. The shortest side of the playground and its width have the same dimension. Write numbers in the boxes to show the missing dimensions. What is the area of the playground?



24. For each pair of coordinates, choose a box to tell whether the coordinates are reflections across the x-axis or the y-axis.

Coordinates	Reflection across x-axis	Reflection across y-axis
$(-3, 5), (3, 5)$	<input type="checkbox"/>	<input type="checkbox"/>
$(-7, -4), (-7, 4)$	<input type="checkbox"/>	<input type="checkbox"/>
$(6, -8), (-6, -8)$	<input type="checkbox"/>	<input type="checkbox"/>
$(2, -9), (2, 9)$	<input type="checkbox"/>	<input type="checkbox"/>

5. Jake drew the sketch below of a kite that he wants to make.

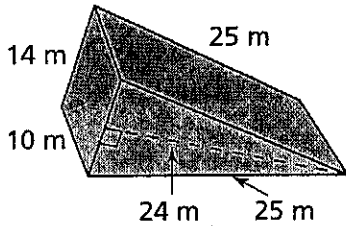


What will be the area of Jake's kite? Explain.

6. Which of the following can be used to find the volume of a rectangular prism with length 7.5 centimeters, width 2 centimeters, and height 4.2 centimeters?

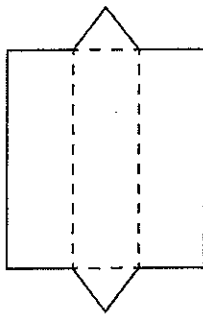
- $V = 15 + 4.2$
- $V = 15 \times 4.2 \times 4.2$
- $V = 15 \times 4.2$
- $V = 7.5 \times 2 \times 4.2$
- $V = (7.5 + 2) \times 4.2$

7. What is the surface area of the triangular prism shown?

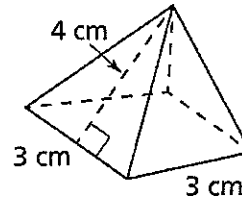


- (A) 558 m^2
- (B) 976 m^2
- (C) $1,680 \text{ m}^2$
- (D) $1,750 \text{ m}^2$

8. The net below represents a container. What solid figure does it show? How many vertices does the container have?



9. A square pyramid is shown.



What is the surface area of the pyramid?

10. Stephan has a piece of wood that measures 18 inches long and 12 inches wide. He wants to make a tray with sides 2 inches high. Maurice says that he can make a tray that has a base measuring $10\frac{1}{2}$ inches by $10\frac{1}{2}$ inches. Is he correct? Explain.

1. The table shows the number of cups of flour, f , that a bakery needs for the number of pound cakes that they make, p .

Pound Cakes, p	3	6	9	14
Cups of Flour, f	8.25	16.5	24.75	

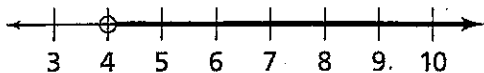
Part A

Write an equation that relates the number of cups of flour to the number of pound cakes that the bakery makes.

Part B

Use the equation to complete the table. Show how you determined the number of cups of flour needed for 14 cakes.

2. Write the inequality that the graph represents.



13. Paul makes \$11.75 an hour at his job. This week, he worked 20 hours. How much did he make this week?

- (A) \$220.00 (C) \$235.00
 (B) \$225.00 (D) \$240.00

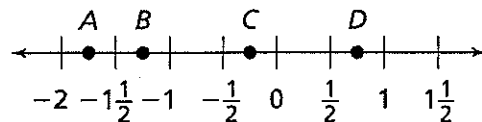
12. $2.5 \text{ kg} = \boxed{} \text{ g}$

$2.5 \text{ kg} \times \frac{\boxed{} \text{ g}}{\boxed{} \text{ kg}} = \frac{\boxed{}}{\boxed{}} \text{ g} = \boxed{} \text{ g}$

4. For questions 4a–4d, choose Yes or No to tell if the two given numbers are opposites.

- 4a. 6 and -6 Yes No
 4b. 8 and $\frac{1}{8}$ Yes No
 4c. $-(-12)$ and -12 Yes No
 4d. 7 and $-\frac{1}{7}$ Yes No

5. Write the letter of each point on the number line that corresponds to its value. Then explain how you decided which value corresponds to point B.



- $-\frac{1}{4}$ $\frac{3}{4}$ $-1\frac{1}{4}$ $-1\frac{3}{4}$

6. Which expression is **NOT** equivalent to $24 + 6x$?

- (A) $2(3x + 12)$
- (B) $28 + 4x - 4 + 2x$
- (C) $5x + 7 + x + 17$
- (D) $3(8 + 3x)$

5. $\frac{x}{3} = 9$

6. $14x = 73.5$

1. $8x = 64$

2. $x + 2 = 11$

8. Tamera graphs the following points on a coordinate plane.

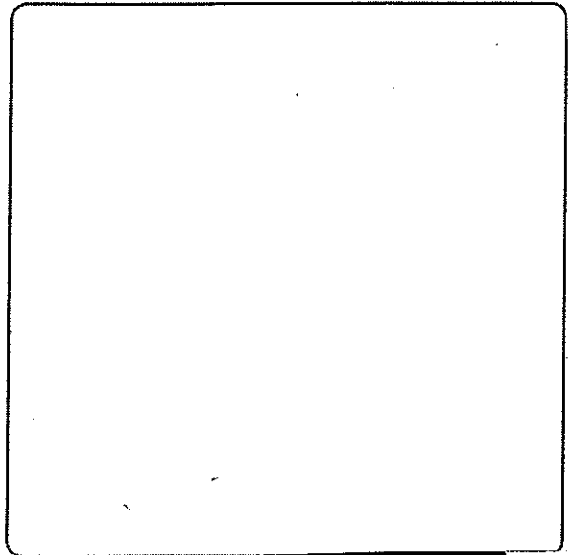
$P(3, -4)$ $Q(-7, 2)$ $R(5, 3)$ $S(6, -1)$

Which statement is correct?

- (A) A reflection of P across the x -axis is at $(3, 4)$.
- (B) A reflection of Q across the y -axis is at $(7, -2)$.
- (C) A reflection of R across the x -axis is at $(-5, 3)$.
- (D) A reflection of S across the y -axis is at $(6, 1)$.

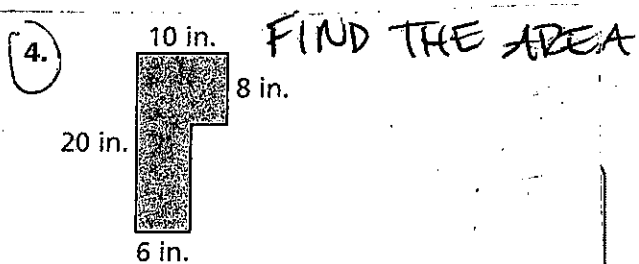
23. Order these absolute values from least to greatest. Explain.

$|11|, |-8|, |-2|, |5|, |-12|$



10. Which equation is equivalent to $3 = 87 \div h$?

- (A) $3 = (87 \div h) - 9$
- (B) $3 \times 9 = (87 \div h) \div 9$
- (C) $3 + 9 = (87 \div h) + 9$
- (D) $3 - 9 = (87 \div h)$

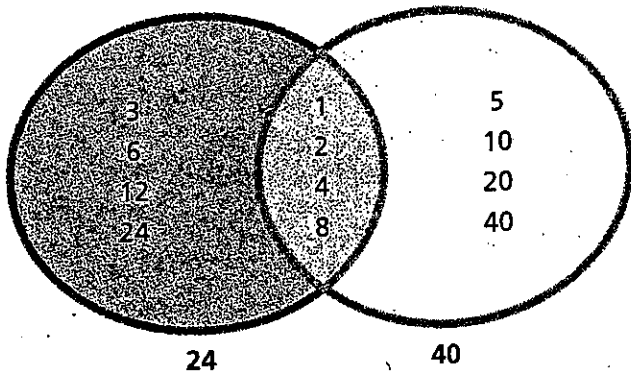


19. There are 16 tablespoons in 1 cup. How many tablespoons of cornstarch would Cheryl need to make the green slime recipe 15 times?

Green Slime Recipe

- 1 pint water
- $\frac{1}{2}$ cup cornstarch
- Green food coloring

Add hot water to cornstarch and stir constantly. Then add green food coloring, and stir. Allow the slime to cool to room temperature. This makes a messy slime that goes from liquid to solid. Make sure to play with it on a plastic covered surface. Always have adult supervision when using hot water.



b. Explain how you use the Venn diagram to find the GCF of 24 and 40. What is the GCF of 24 and 40?

Make a Venn Diagram to show the common factors of 32 and 48. Then circle the GCF.

