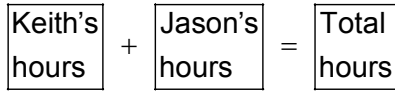


UNIT
5

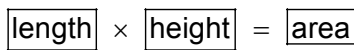
Equations and Inequalities

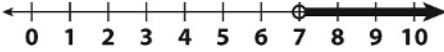
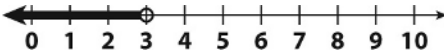
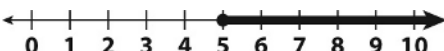
Unit Test: D

1. Keith and Jason worked 12 hours. Jason worked 3 hours. Which equation shows this situation? Use the model below to help you.

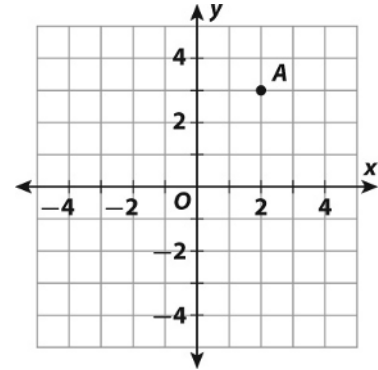


- A $12 + k = 3$
 B $12k = 3$
 C $k + 3 = 12$
2. Which equation is true when $x = 1$?
 A $3x = 3$
 B $3x = 2$
 C $3x = 1$
3. Bianca scored 2 goals. Together, Bianca and Diana scored 5 goals. How many goals did Diana score?
 A 2
 B 3
 C 5
4. A wall has an area of 40 square feet. Its height is 8 feet. Which equation could you use to find its width? Use the model below to help you.



- A $40 - w = 8$
 B $8w = 40$
 C $8 + w = 40$
5. Which number line shows $x > 7$?
- A 
- B 
- C 

6. Where is point A located on the coordinate grid below?



- A Quadrant I
 B Quadrant II
 C Quadrant III
7. Mike reads 5 pages an hour. The independent variable is time. What is the dependent variable?
 A the number of books
 B the number of hours
 C the number of pages
8. Wendy is making lemonade. Which equation shows how much lemon juice is needed for 3 ounces of water?

Water in ounces	3	6	9
Lemon juice in ounces	1	2	3

- A $j = 1$
 B $3 + j = 1$
 C $j - 3 = 1$
9. Paul graphed the equation $y = x$. Which point does the graph *not* pass through?
 A (0, 0)
 B (5, 5)
 C (10, 15)

UNIT
5

Equations and Inequalities

10. Tamara has 12 pencils. There are 3 red pencils and p other pencils. Complete the equation to represent this situation.

$$p + 3 = \underline{\hspace{2cm}}$$

11. Is $x + 15 = 7$ true when $x = 12$?

12. Oliver had \$10. On his birthday, he received \$25. Use the equation below to find how much money Oliver has now.

equation: $10 + 25 = m$

solution: _____

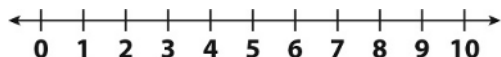
13. Greta cut a ribbon into 12 pieces. Each piece was 6 inches long. Complete and solve the equation to find the length of the ribbon she started with.

length of ribbon $\div 12 = 6$

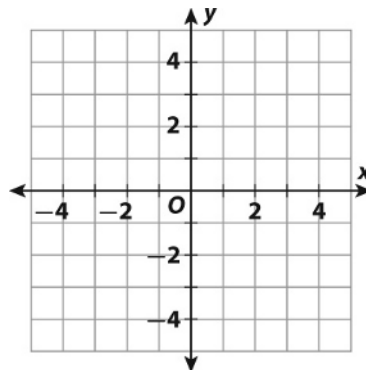
equation: $x \div 12 = 6$

solution: _____

14. Shade the number line to show $t \leq 5$.



15. Graph point (2, 4) on the coordinate plane below.



16. Tickets cost \$7 each. As the number of tickets goes up, the total cost goes up. The independent variable is shown below. What is the dependent variable?

independent: number of tickets

dependent: _____

17. The table shows how much Eric earns. Complete the equation to show how the number of hours Eric works is related to his pay.

Hours Worked	1	2	3	4
Pay in Dollars	8	16	24	32

equation: $p = (\underline{\hspace{1cm}}) \times h$

18. Graph the equation $y = x$. The first point is done for you.

