

Name: _____



PRACTICE



TUTORIAL

Practice & Problem Solving



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Multimedia



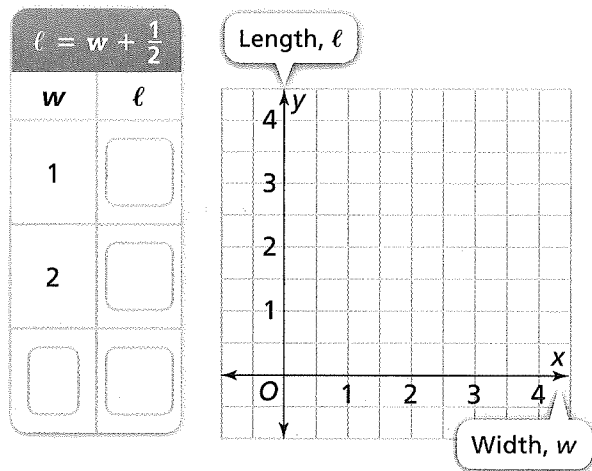
In 8 and 9, complete the table and graph to show the relationship between the variables in each equation.

8. A rectangle is $\frac{1}{2}$ inch longer than it is wide.

Let w = width.

Let ℓ = length.

Graph $\ell = w + \frac{1}{2}$.

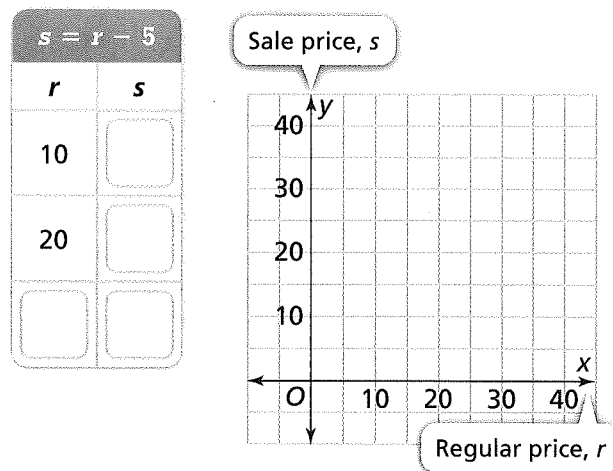


9. The sale price is \$5 less than the regular price.

Let s = the sale price.

Let r = the regular price.

Graph $s = r - 5$.



10. The points $(2, 4)$ and $(-2, -4)$ are plotted on the coordinate plane using the equation $y = a \cdot x$. How can you use the coordinates to find the value of a ?

11. Without using a table or graph, identify three other points that a graph of the equation in Exercise 10 will pass through.

12. **Reasoning** The Jackson family is planning a weekend vacation. They plan to rent a car from the ABC Car Rental Company. Let m represent the number of miles the family will drive. Let c represent the cost for renting a car. Write an equation that shows what the cost for renting a car will be.



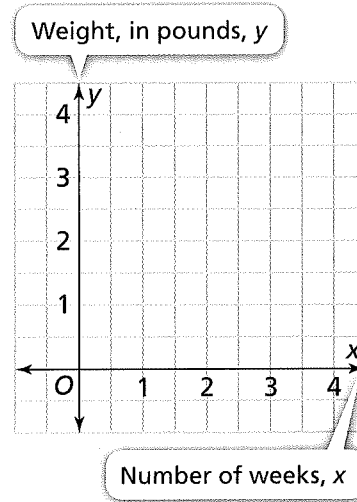
In 13, write an equation. Complete the table and graph to solve the problem.

13. A puppy weighs 1 pound.
What does the puppy weigh after 4 weeks?

Puppy gains $\frac{1}{2}$ pound each week.



x	y
0	<input type="text"/>
2	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>



14. **Model with Math** During a movie matinee, the film projector broke. The theater manager refunded the ticket price to everyone attending. Let n represent the number of people watching the movie. Let r represent the total amount of money refunded. Write an equation to represent the amount of money refunded.

MOVIE PRICES	
Adults	\$8.50
Children and Seniors	\$7.00
Matinees: All Ages	\$5.00

15. **Higher Order Thinking** Write an algebraic equation that matches the values shown in the table at the right. Explain how you solved the problem.

x	y
1	8
2	11
3	14
4	17

Assessment Practice

16. Carl wrote the equations $y = 2x$ and $y = x + 2$.

PART A

Which equation represents the graph on the right?

PART B

Describe the relationship between the variables in the graph and the equation.

