



Name \_\_\_\_\_ Date \_\_\_\_\_

**Skills Maintenance****Solving Algebraic Equations****Activity 1**

Use mental math to solve the algebraic equations.

1.  $27 = 9w$       What is the value of  $w$ ? \_\_\_\_\_
2.  $9 = 36 \div z$       What is the value of  $z$ ? \_\_\_\_\_
3.  $5y = 45$       What is the value of  $y$ ? \_\_\_\_\_
4.  $15 - x = 12$       What is the value of  $x$ ? \_\_\_\_\_
5.  $20 = 12 + a$       What is the value of  $a$ ? \_\_\_\_\_

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## Apply Skills

### Functions From Everyday Life

#### Activity 1

Look at the everyday functions. Make a table of input and output that demonstrates the function. Be sure your input and output include the answer to the question that is asked. Then answer the question.

- Suppose strawberries cost \$3 per pound. How much does it cost for 5 pounds of strawberries? \_\_\_\_\_

Pounds	Cost

- A gas station charges \$4 per gallon for gas. How much does it cost for 10 gallons of gas? \_\_\_\_\_

Gallon	Cost



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3. Elizabeth makes \$10 per hour for babysitting. If Elizabeth works 6 hours, how much does she make? \_\_\_\_\_

Hours	Payment

4. The ticket agency charges a \$5 processing fee for every ticket that you purchase. If you buy 4 tickets, how much will you need to pay as a processing fee? \_\_\_\_\_

Ticket	Processing Fee

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## Problem-Solving Activity

### Translations on a Coordinate Graph

Translate each shape. Each problem shows the shape in its start position. Fill out the table first, then draw the shape in its end position. Make sure you label your coordinates on the graph.

1.

Starting Points	
Vertices	Coordinates
A	(-8, 6)
B	(-4, 6)
C	(-8, 2)
D	(-4, 2)

Move the square a distance of 10 from Quadrant II to Quadrant I.

Ending Points	
Vertices	Coordinates
A'	
B'	
C'	
D'	

2.

Starting Points	
Vertices	Coordinates
A	(4, -1)
B	(1, -4)
C	(7, -4)

Move the triangle a distance of 5 from Quadrant IV to Quadrant I.

Ending Points	
Vertices	Coordinates
A'	
B'	
C'	

3.

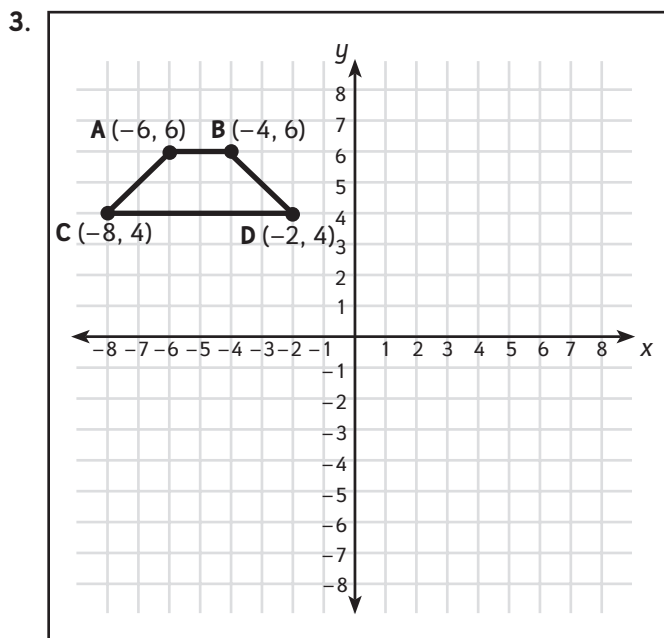
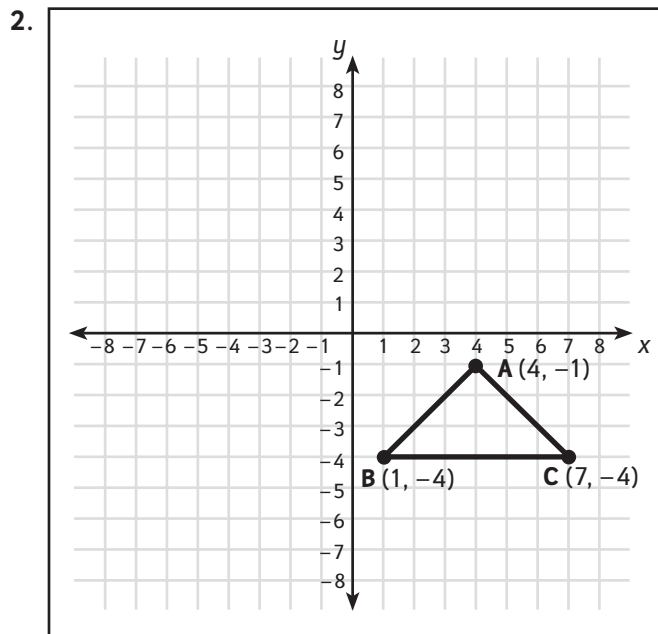
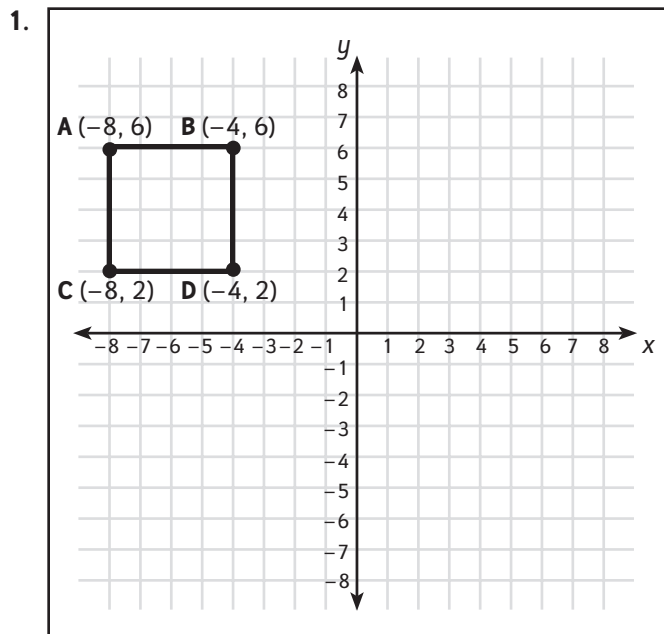
Starting Points	
Vertices	Coordinates
A	(-6, 6)
B	(-4, 6)
C	(-8, 4)
D	(-2, 4)

Move the trapezoid a distance of 8 from Quadrant II to Quadrant III.

Ending Points	
Vertices	Coordinates
A'	
B'	
C'	
D'	



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 Use the mBook *Study Guide* to review lesson concepts.