

Name _____ Date _____

**Skills Maintenance****Using Variables****Activity 1**

Write the missing value above the variable.

1. $m - 9 = 7$

2. $16 \div 4 = n$

3. $8 \cdot p = 56$

4. $r + 7 = 12$

5. $9 + 5 = t$

Activity 2

Look at the number patterns and circle the general pattern that matches.

1. $5 + 0 = 5$ $10 + 0 = 10$ $13 + 0 = 13$

(a) $x + x = 0$

(b) $x - x = 0$

(c) $x + 0 = x$

2. $4 - 4 = 0$ $100 - 100 = 0$ $75 - 75 = 0$

(a) $x + x = 0$

(b) $x - x = 0$

(c) $x + 0 = x$

3. $1 \cdot 5 = 5$ $1 \cdot 1 = 1$ $1 \cdot 517 = 517$

(a) $1 \cdot x = x$

(b) $x \cdot 1 = x$

(c) $x \cdot x = x$

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Apply Skills

Patterns With More Than One Variable

Activity 1

Write a general statement using variables. Check your work by substituting values of your choice for the variables.

1. The three statements are:

$$4 + 7 + 5 = 5 + 7 + 4$$

$$2 + 9 + 3 = 3 + 9 + 2$$

$$1.8 + 2.5 + 3.7 = 3.7 + 2.5 + 1.8$$

Use the variables a , b , and c .

General Statement _____

Check your statement for $a =$ _____, $b =$ _____, and $c =$ _____.

Show your work here:

2. The three statements are:

$$1 \cdot 2 \cdot 10 = 10 \cdot 2 \cdot 1$$

$$5 \cdot 1 \cdot 4 = 4 \cdot 1 \cdot 5$$

$$25 \cdot 2 \cdot 0 = 0 \cdot 2 \cdot 25$$

Use the variables d , e , and f .

General Statement _____

Check your statement for $d =$ _____, $e =$ _____, and $f =$ _____.

Show your work here:

3. The three statements are:

$$0 + 75 + 25 = 0 + 25 + 75$$

$$100 + 90 + 10 = 100 + 10 + 90$$

$$-5 + -10 + -1 = -5 + -1 + -10$$

Use the variables x , y , and z .

General Statement _____


Check your statement for $x =$ _____, $y =$ _____, and $z =$ _____.

Show your work here:


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Problem-Solving Activity More With Patterns


Look at the cards. Find the pattern in the first four cards, then draw the pattern in the fifth card. Fill in the table to help you.



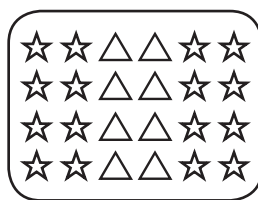
Card 1



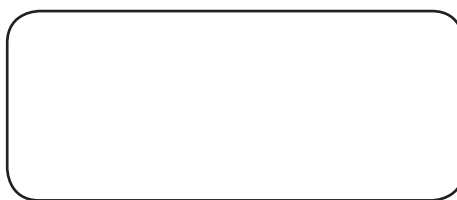
Card 2



Card 3



Card 4



Card 5

Card	Triangles	Stars

What are the patterns?

Write the general equation for each shape using variables.