6. The movement of this figure from quadrant II to quadrant III would best be described by which of the following?

A   translation
B   reflection
C   dilation
D   transportation
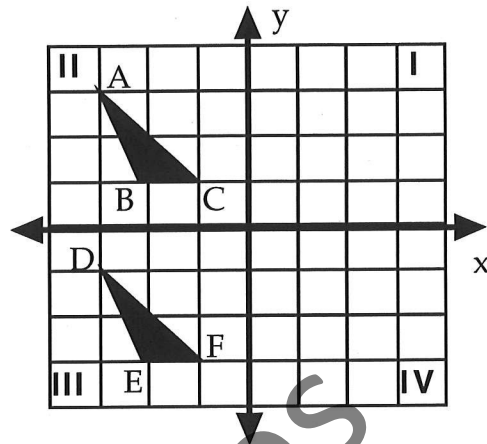
If the coordinates of point A are (-3, 3), then what are the coordinates of point D?

If △ABC is moved 3 units down and 2 units to the right, what are the new coordinates of point C?

If △DEF is moved 3 units up and 2 units to the right, what are the new coordinates of point D?

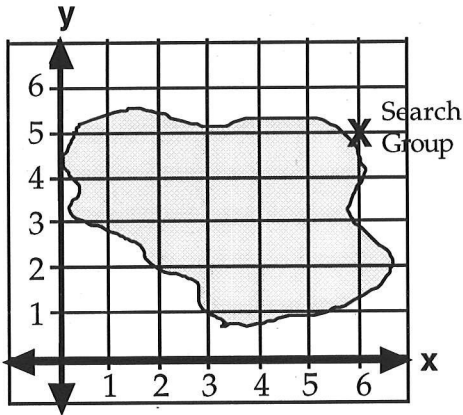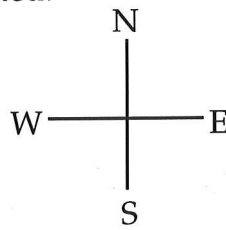7. Find the numerical patterns from these exponential expressions.

$4, \quad 4^2, \quad 4^3, \quad 4^4\ldots$

$5, \quad 5^2, \quad 5^3, \quad 5^4\ldots$

Write the exponential pattern from this sequence of numbers.

10;   100;   1,000;   10,000;   100,000.....

6. There is a report of a missing horse in a heavy brush area of this ranch. The shaded area is where the horse is expected to be located.

```
        N
        |
W ——————+—————— E
        |
        S
```

```
 y
 6
 5                    x  Search
 4                       Group
 3
 2
 1
    1  2  3  4  5  6      x
```

An (**X**) marks the start of the search. The search group heads west for 5 units and then makes a turn due south for 2 units. Which of the following ordered pairs will be the new location of the search group?

A   (5, 2)

B   (3, 1)

C   (1, 3)

D   (2, 5)

7. The Random Survey Company selects persons from a data base of names using a sequence of numbers. They will survey those people who are part of this sequence:

$$3, \; 3^2, \; 3^3, \; 3^4......$$

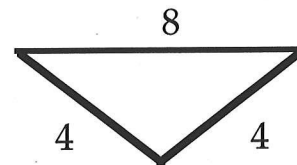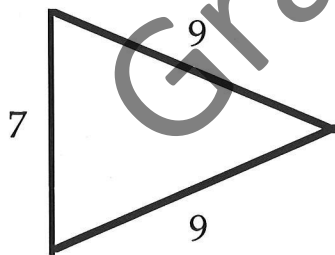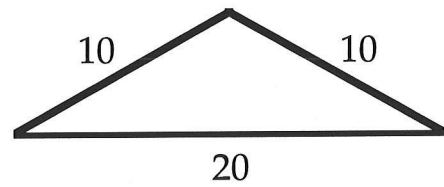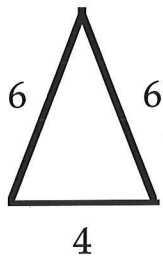Which of the following sequence of numbers represents this pattern?

A   3, 4, 5, 6.....

B   3, 6, 9, 12......

C   3, 9, 27, 81.....

D   3, 32, 33, 34.....

Independent Practice - **Section 5**

3. Convert these fractions, decimals, and percents.

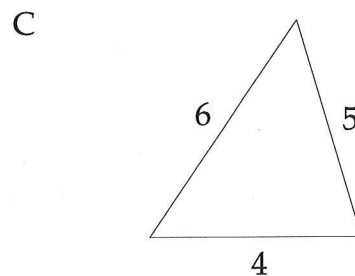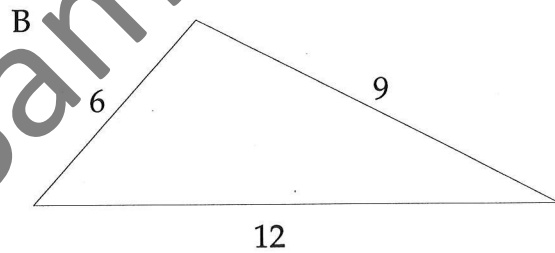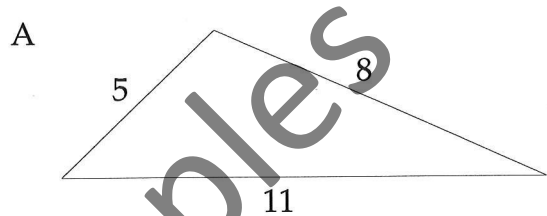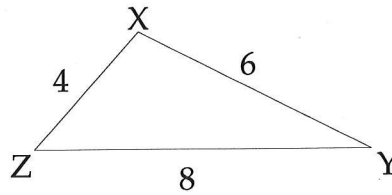|	<u>FRACTION</u>	<u>DECIMAL</u>	<u>PERCENT</u>
I	$\frac{1}{5}$	_ _ _	_ _ _
II	_ _ _	0.25	_ _ _
III	_ _ _	_ _ _	50%

4. Determine which of the following two pairs of triangles are *similar*.

_____   _____

3. Tammy made 75% of her free throw attempts during the championship game. How can this be represented in fraction form?

A $\dfrac{1}{2}$

B $\dfrac{2}{3}$

C $\dfrac{3}{4}$

D $\dfrac{4}{5}$

4. Which of the following triangles is similar to triangle XYZ?

X
4   6
Z   8   Y

A
5   8
11

B
6   9
12

C
6   5
4

D
5   5
4