RATIOS AND PROPORTIONS Bell Work

The ratio is a comparison between two numbers using:

Addition A.

Division

Multiplication В.

D. Subtraction

Which of these is a correct way of representing a ratio? 2.

A.

C.

C. 1 to 2

1:2 B.

All of these D.

In the proportion $\frac{a}{b} = \frac{c}{d}$, the extremes are:

A. $oldsymbol{a}$ and $oldsymbol{d}$

 $oldsymbol{c}$ and $oldsymbol{b}$ В.

C. $oldsymbol{a}$ and $oldsymbol{c}$

b and dD.

In the proportion $\frac{a}{b} = \frac{c}{d}$, the means are:

A. \boldsymbol{a} and \boldsymbol{d} В.

C. $oldsymbol{a}$ and $oldsymbol{c}$

b and dD.

 \boldsymbol{c} and \boldsymbol{b}

The solution of $\frac{8}{r} = 2$ is:

A. 16

C. 0 В. 4

D. 28

The proportion is a/an: 6.

> A. **Equality statement**

Both A. And B. C.

В. Inequality statement

None of these. D.

Name:		Period:	_ Date:
RATIOS AND PROPORTIONS Bell Work			
7.	The ratio of the side lengths of a triangle is 3 : 5 : 7 , and its side of the triangle?	perimeter is $oldsymbol{60} oldsymbol{ft}$. W	/hat is the length of the shortest
8.	The ratio of the length to width of an rectangle is $7:3$ arrectangle?	nd its perimeter is 80	$m{0}$ $m{cm}$. What is the length of the
9.	The ratio of the side lengths of a quadrilateral is 2 : 4 : 5 : 7 , shortest side?	, and its perimeter is	$oldsymbol{54}$ $oldsymbol{m}$. What is the length of the

RATIOS AND PROPORTIONS Bell Work

ANSWER

- 1. The ratio is a comparison between two numbers using:
 - Addition
 - G. Division

- F. Multiplication
- Н. Subtraction
- 2. Which of these is a correct way of representing a ratio?
 - E.
 - G. 1 to 2

- F. 1:2
- All of these
- In the proportion $\frac{a}{b} = \frac{c}{d}$, the extremes are:
 - E. \boldsymbol{a} and \boldsymbol{d}
 - G. $oldsymbol{a}$ and $oldsymbol{c}$

- $oldsymbol{c}$ and $oldsymbol{b}$ F.
- Н. b and d

- In the proportion $\frac{a}{b} = \frac{c}{d}$, the means are:
 - E. $oldsymbol{a}$ and $oldsymbol{d}$
 - G. $oldsymbol{a}$ and $oldsymbol{c}$

- $oldsymbol{c}$ and $oldsymbol{b}$ F.
- Н. b and d

- The solution of $\frac{8}{r} = 2$ is: 5.
 - E. 16
 - 0 G.

- F. 4
- 28 Η.

- 6. The proportion is a/an:
 - E. **Equality statement**
 - G. Both A. And B.

- Inequality statement F.
- Η. None of these.

Name: ______ Period: _____ Date: _____

RATIOS AND PROPORTIONS Bell Work

7. The ratio of the side lengths of a triangle is **3**: **5**: **7**, and its perimeter is **60 ft**. What is the length of the **shortest** side of the triangle?

$$3:5:7 \rightarrow 3x:5x:7x$$

$$P = 60 ft$$

$$P = 3x + 5x + 7x = 15x$$

$$60 ft = 15x$$

$$\frac{60\,ft}{15} = \frac{15x}{15}$$

$$4 ft = x$$

shortest side = 3x = 3(4 ft) = 12 ft

8. The ratio of the length to width of an rectangle is **7**: **3** and its perimeter is **80** *cm*. What is the length of the rectangle?

$$L: W = 7: 3 \rightarrow 7x: 3x$$

$$P = 80 cm$$

$$P = 2L + 2W = 2(7x) + 2(3x) = 14x + 6x = 20x$$

$$80 m = 20x$$

$$\frac{80\ m}{20}=\frac{20x}{20}$$

$$4 m = x$$

$$L = 7x = 7(4 m) = 28 m$$

9. The ratio of the side lengths of a quadrilateral is 2: 4: 5: 7, and its perimeter is 54 m. What is the length of the shortest side?

2: 4: 5: 7
$$\rightarrow$$
 2x: 4x: 5x: 7x

$$P = 54 m$$

$$P = 2x + 4x + 5x + 7x = 18x$$

$$54 m = 18x$$

$$\frac{54 \ m}{18} = \frac{18x}{18}$$

$$3 m = x$$

shortest side = 2x = 2(3 m) = 6 m

_____ Period: ______ Date: _____

RATIOS AND PROPORTIONS Bell Work

10. The ratio of the angle measure in a kite is 2: 3: 7: 3. What is the measure of each angle?

2: 3: 5: 3
$$\rightarrow$$
 2x: 3x: 7x: 3x

 Σ interior \angle of quadrilateral = 360°

 Σ interior \angle of quadrilateral = 2x + 3x + 7x + 3x = 15x

$$360^{\circ} = 15x$$

$$\frac{360^{\circ}}{15} = \frac{15x}{15}$$

$$24^{\circ} = x$$

$$2x = 2(24^{\circ}) = 2x = 48^{\circ}$$

$$2x = 2(24^{\circ}) = 2x = 48^{\circ}$$
 $3x = 3(24^{\circ}) = 3x = 72^{\circ}$ $7x = 7(24^{\circ}) = 3x = 168^{\circ}$

$$7x = 7(24^{\circ}) = 3x = 168^{\circ}$$

$$2: 3: 5: 3 \rightarrow 48^{\circ}: 72^{\circ}: 168^{\circ}: 72^{\circ}$$