

USING RATIOS 1

Exercises

1. QUESTION

The length of two pieces of rope are in the ratio of 6: 4. If the longer piece is 48 cm, calculate the length of the shorter piece?

$$6: 4 = \frac{6}{4}$$

$$\frac{6}{4} = \frac{48}{n}$$

Method 1: Cross multiply:

$$\frac{6}{4} = \frac{48}{n}$$

$$6 \times n = 4 \times 48$$

$$n = 192 \div 6$$

$$n = 32$$

Answer = The shorter length is 32.

Method 2: Equivalency

$$\frac{6}{4} = \frac{48}{n}$$

$$\frac{6 \times 8}{4 \times 8} = \frac{48}{32}$$

Answer = The shorter length is 32.

NAME _____

DATE _____

2. QUESTION

Share 60 dollars between two siblings, Ben and Ken in the ratio 3 : 7.

- There are shares

Sibling shares will look like this: /10 : /10

So one gets:

Ben - $\frac{\text{}}{\text{}} \times \$\text{} = \$\text{} \leftarrow \text{Answer}$

Ken - $\frac{\text{}}{\text{}} \times \$\text{} = \$\text{} \leftarrow \text{Answer}$

3. QUESTION

Increase 300 in the ratio 3:4

old : new

300: N = 3: 4

$$\frac{300}{N} = \frac{3}{4}$$

Answer = _____

4. QUESTION

Share 60 dollars between two siblings, Ben and Ken in the ratio 3: 7.

Answer = _____

NAME _____

DATE _____

5. QUESTION

Increase 6 dozen in the ratio 1 : 4.

Answer: _____

6. QUESTION

Decrease 2 score in the ratio of 5:2

Answer: _____

7. QUESTION

Share 36 in the ratio 2:3:1.

Answer: _____

8. QUESTION

Share 250 in the ratio 4:8

Answer: _____

8. QUESTION

Share 36 in the ratio 2:3:1.

Answer: _____

NAME _____

DATE _____

USING RATIOS 2

1. QUESTION

The length of two pieces of rope are in the ratio of 6: 4. If the longer piece is 48 cm, calculate the length of the shorter piece?

○ $6: 4 = \frac{6}{4}$

$$\frac{6}{4} = \frac{48}{n}$$

Cross multiply:

$$\frac{6}{4} = \frac{48}{n}$$

Answer = The shorter length is _____

2. QUESTION

Two poles of lengths are the ratio of 4 : 5. If the longer pole is 12 metres. Calculate length of the shorter pole?

Answer = _____

NAME _____

DATE _____

3. QUESTION

The price of books and pens are sold in a ratio 8:3. How much is the price of the books?



Answer = _____

4. QUESTION

The lengths of the shadows cast by two trees at the same time are in the ratio 3 : 7. The shadow cast by shorter tree is 6 metres. Calculate the length of the shadow cast by the taller tree?

Answers = Length of the shadow cast by the taller tree is _____.

5. QUESTION

The ratio of boys and girls in a school is 3 : 4. If there are 264 girls, how many boys are there?

Answer= _____

NAME _____

DATE _____

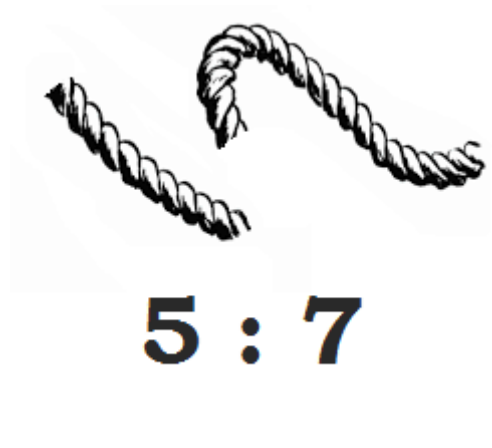
6. QUESTION

Share 85 marbles in the ratio 3 : 2.

Answers = _____

7. QUESTION

A piece of string 168 cm is cut into two parts in the ratio 5 : 7. Calculate the length of each piece.



Answer = 5 : 7 = _____

8. QUESTION

If \$30,000 is shared among three Glen, Bret, Jess in the ratio 3 : 5 : 7. What is the share for the three?

Answers = _____