

MATH

Long-term Memory Review

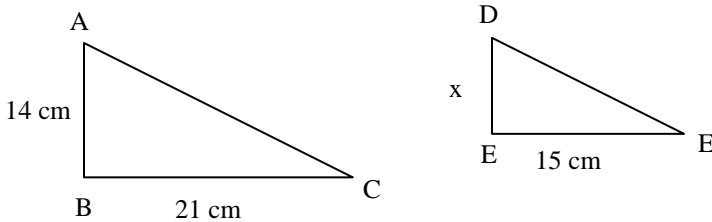
PROFICIENCY PRACTICE: MONDAY REVIEW

1) Provide a complete response to each of the following:

- a) A ratio compares two _____.
- b) A proportion sets two ratios _____ to each other.
- c) What are similar figures?

d) Draw two similar figures.

Figure One:



2) Use Figure One: The triangles in the figure above are similar.

- a) _____ and _____ are measures of corresponding sides.
- b) _____ and _____ are measures of another pair of corresponding sides.

3) USE Figure One: Find the value of x .

- a) 7 cm
- b) 8 cm
- c) 10 cm
- d) 11 cm

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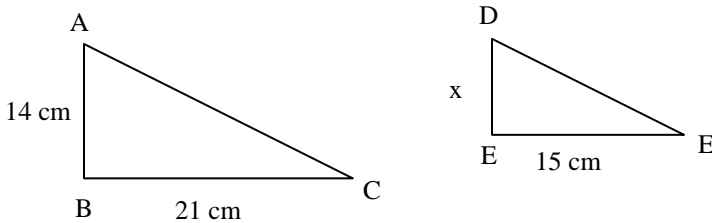
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PROFICIENCY PRACTICE: TUESDAY REVIEW

1) Provide a complete response to each of the following:

- A ratio compares two _____.
- A proportion sets two ratios _____ to each other.
- What are similar figures?
- Draw two similar figures.

Figure One:



2) USE Figure One: We know that $\triangle ABC \sim \triangle DEF$. Write four different proportions that can be used to solve for x .

$$\frac{15 \text{ cm}}{x} = \frac{21 \text{ cm}}{14 \text{ cm}}$$

One way

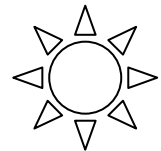
$$\frac{x \text{ cm}}{14 \text{ cm}} = \frac{15 \text{ cm}}{21 \text{ cm}}$$

Second way

Third way

Fourth way

3) A man who is 6 feet tall casts a shadow that is 11 feet long. At the same time, a tree casts a shadow that is 33 feet long. Use the drawing below to help you find the height of the tree? Label the following: a) tree, b) tree's shadow, c) man, and d) man's shadow.



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PROFICIENCY PRACTICE: WEDNESDAY REVIEW

1) Provide a complete response to each of the following:

- a) A ratio compares two_____.
- b) A proportion sets two ratios _____to each other.
- c) What are similar figures?

d) Draw two similar figures.

2) In one season, a city's basketball team won 60 games and lost 20 games.

- a) What is the ratio of games won to games lost?

ANSWER: This question can be written in following different ways:

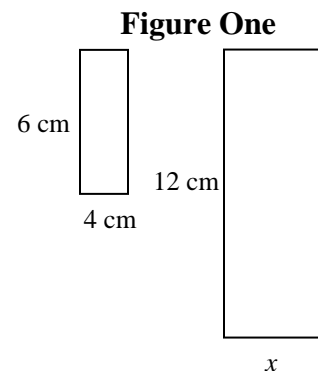
60 won to 20 lost; or 60 won : 20 lost; or $\frac{60 \text{ won}}{20 \text{ lost}}$

- b) What is the total number of games played?_____
- c) What is the ratio of games won to games played?_____
- d) What is the ratio of games lost to games played?_____

3) There are only dogs and cats at the following rescue center. The ratio of dogs to cats being adopted today at the animal rescue center is 7 to 5. If there are 120 total animals up for adoption, how many dogs are there?

4) USE Figure One: The rectangles at the right are similar.

Write four different proportions that can be used to solve for x .



$$\frac{12 \text{ cm}}{x} = \frac{6 \text{ cm}}{4 \text{ cm}}$$

One way

$$\frac{12 \text{ cm}}{6 \text{ cm}} = \frac{x}{4 \text{ cm}}$$

Second way

Third way

Fourth way

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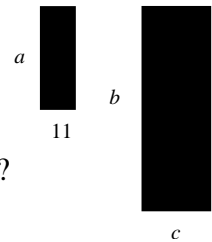
PROFICIENCY PRACTICE: THURSDAY REVIEW

1) Provide a complete response to each of the following:

- a) A ratio compares two _____.
- b) A proportion sets two ratios _____ to each other.
- c) What are similar figures?

d) Draw two similar figures.

Figure One



2) USE Figure One: Write four different proportions that can be used to solve for c ?

$$\frac{a}{11} = \frac{b}{c}$$

$$\frac{a}{b} = \frac{11}{c}$$

One way

Second way

Third way

Fourth way

3) USE Figure One: The two rectangles at the right are similar. What is the value of c ?

a) $c = \frac{11b}{a}$

b) $c = \frac{11a}{b}$

c) $c = \frac{b}{11a}$

d) $c = \frac{a}{b}$

4) In one season, a city's basketball team won 60 games and lost 20 games.

- a) What is the total number of games played? _____
- b) What is the ratio of games won to games played? _____
- c) What is the ratio of games lost to games played? _____
- d) In the same city, a baseball team had the same ratio of wins to losses as the above basketball team, but they played 120 total games during the season. How many games did the baseball team win and lose? _____

5) A new leather coat is on sale for 20% off the original price. If sale price is \$176 after the 20% discount, then what is the original price of the coat? Use the proportion below to help you solve the problem.

$$\frac{80 \text{ sale price (\$paid)}}{100 \text{ total price (\$original)}} = \frac{\text{sale price (\$paid)}}{\text{total price (\$original)}}$$

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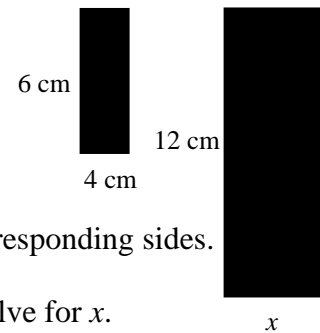
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PROFICIENCY PRACTICE: FRIDAY TEST

- 1) Provide a complete response to the following questions:
 - a) A ratio compares two _____.
 - b) A proportion sets two ratios _____ to each other.
 - c) What are similar figures?

d) Draw two similar figures.

Figure One



2) USE Figure One: The rectangles are similar.

- a) _____ and _____ are measures of corresponding sides.
- b) _____ and _____ are measures of the other pair of corresponding sides.

3) USE Figure One: Write four different proportions that can be used to solve for x.

$$\frac{12 \text{ cm}}{x} = \frac{6 \text{ cm}}{4 \text{ cm}}$$

$$\frac{12 \text{ cm}}{6 \text{ cm}} = \frac{x}{4 \text{ cm}}$$

One way

Second way

Third way

Fourth way

4) USE Figure One: Find the value of x.

- a) 2 cm
- b) 8 cm
- c) 10 cm
- d) 18 cm

5) A new leather coat is on sale for 20% off the original price. If sale price is \$176 after the 20% discount, then what is the original price of the coat? Use the proportion below to help you solve the problem.

$$\frac{80 \text{ sale price (\$paid)}}{100 \text{ total price (\$original)}} = \frac{\text{sale price (\$paid)}}{\text{total price (\$original)}}$$

6) A man who is 6 feet tall casts a shadow that is 11 feet long. At the same time, a tree casts a shadow that is 33 feet long. Draw a picture to represent this situation and find the height of the tree?

7) USE Figure Two: The two rectangles at the right are similar. What is the value of c?

- a) $c = \frac{11b}{a}$
- b) $c = \frac{11a}{b}$
- c) $c = \frac{b}{11a}$
- d) $c = \frac{a}{b}$

Figure Two

