

MATH

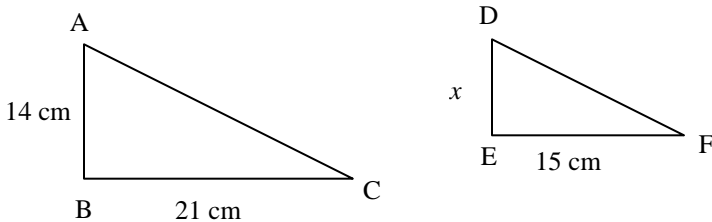
Long-term Memory Review

PROFICIENCY PRACTICE: MONDAY 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: The triangles in the figure above are similar.

- _____ and _____ are measures of one pair of corresponding sides.
- _____ and _____ are measures of another pair of corresponding sides.
- _____ and _____ are measures of a third pair of corresponding sides.

3) 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

4) Write the symbol for *similar*.

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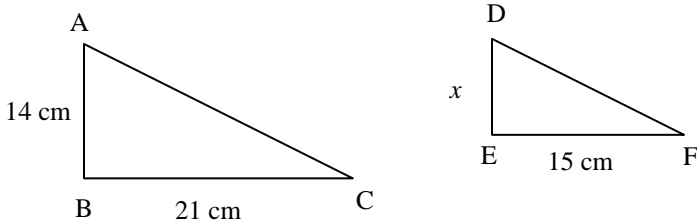
Long-term Memory Review

PROFICIENCY PRACTICE: TUESDAY 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 triangles.

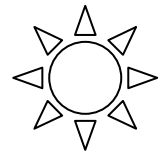
Figure One:



2) Use Figure One: Find the value of x .

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

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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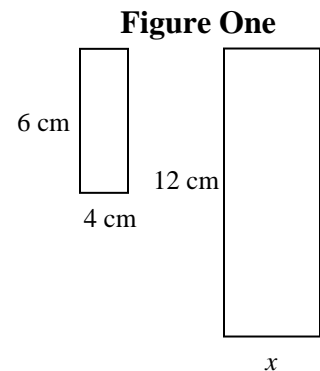
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PROFICIENCY PRACTICE: WEDNESDAY REVIEW

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 quadrilaterals.

2) 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

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

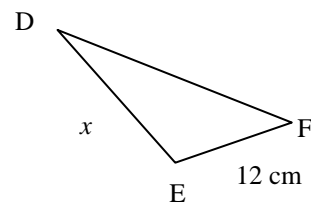
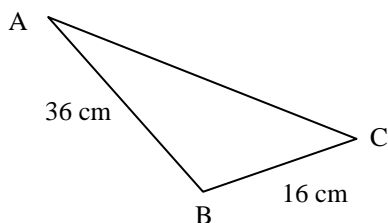
Second way

Third way

Fourth way

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

Figure Two:



4) Use Figure Two: Find the value of x .

a) $5\frac{1}{3}$ cm

b) 27 cm

c) 32 cm

d) 48 cm

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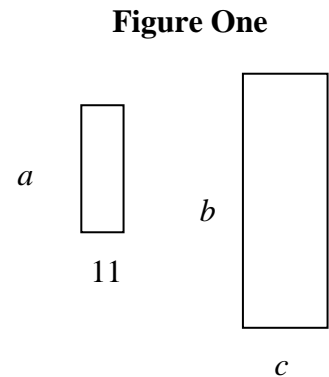
PROFICIENCY PRACTICE: THURSDAY REVIEW

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 triangles and two similar quadrilaterals.

- e) Label the one triangle's vertices with A, B, and C.
Label the other triangle's vertices with X, Y, and Z.
Write a statement showing they are similar using mathematical notation.



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

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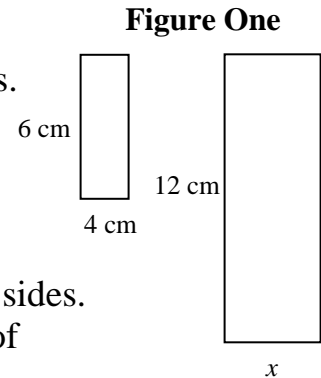
Long-term Memory Review

PROFICIENCY PRACTICE: FRIDAY TEST

1) Provide a complete response to the following questions:

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

d) Draw two similar triangles and two similar quadrilaterals.



2) USE Figure One: The rectangles are similar.

- _____ and _____ are measures of corresponding sides.
- _____ 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

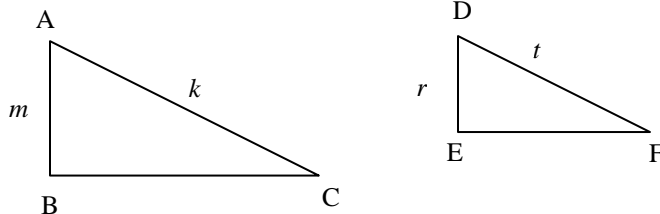
Third way

Fourth way

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

- 2 cm
- 8 cm
- 10 cm
- 18 cm

Figure Two:



5) Use Figure Two: Find the value of m in terms of k , r , and t .