

Review

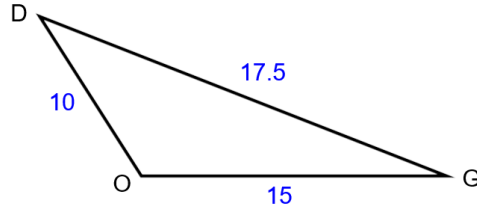
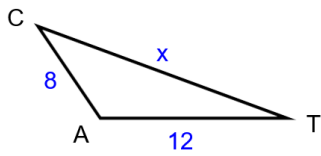
NAME: _____

DATE: _____

The following figures are similar. Fill in the blanks and answer the questions.

1.

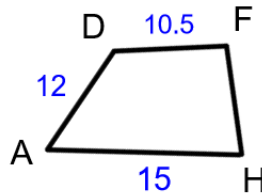
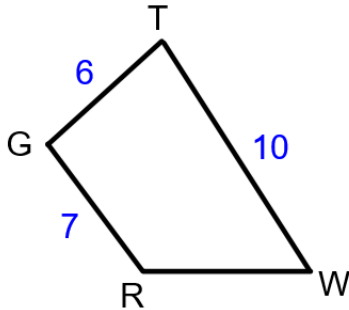
$CAT \sim$ _____



- Find x .
- \overline{AT} corresponds to _____
- $\angle D$ corresponds to _____
- What is the scale factor?

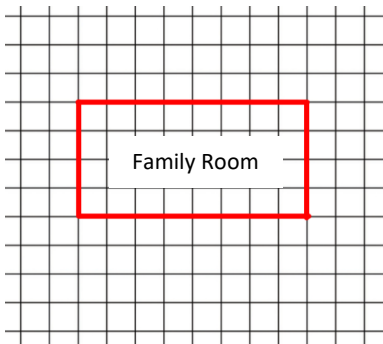
2.

$GRWT \sim$ _____



- \overline{GT} corresponds to _____
- $\angle A$ corresponds to _____
- $\frac{WT}{AH} = \frac{GT}{FH}$ is true or false?
- What is the scale factor?
- Find the length of WR .
- Find the length of FH .

3. The scale is 2 units = 13 feet.



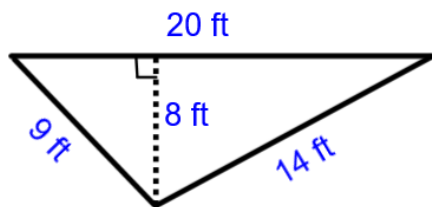
- What are the real-life dimensions of the family room?
- What is the area of the real family room?

Draw and label the sides of the similar figures with the given scale factor. Find the perimeter and area.

4.

Original Figure

Scale Factor = 2



Original Perimeter =

New Perimeter =

Original Area =

New Area =

How many times bigger is the new perimeter to the original perimeter?

How many times bigger is the new area to the original area?

Use proportions to solve the following.

5. The scale on a map is 1.5 cm equals 40 km in real life. You measure the distance between two cities on the map as 14 cm. How far apart are the cities in real life?

6. A baby doll is 1:12 of a real baby. If the real baby is 14 inches long, how big is the doll?

7. Mr. Kelly buys a wallet size portrait of himself. He wants a poster made of his face from the wallet size that would be at the ratio 15:2. What are the dimensions of the poster?

2.5 cm

8 cm

