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Geometry w/ Trig

Unit 7 Similarity Review**SHOW ALL WORK → You must set up a proportion, where necessary, to solve for the variable!****Part A: Ratio and Proportion (section 7.1)**

- 1) 144° The measure of the angles of a quadrilateral have the ratio 2 : 3 : 4 : 6. Find the measure of the largest angle.



$$2x + 3x + 4x + 6x = 360$$

$$15x = 360$$

$$x = 24$$

$$\text{largest} = 6(24) = 144$$

- 2) 60 in a) A photo needs to be enlarged from an original with a length of 12 inches and a width of 10 inches to a size where the new width is 50 inches. What is the new length?
Sketch a diagram first:



$$\frac{10}{50} = \frac{12}{x}$$

$$x = 60$$

Similar

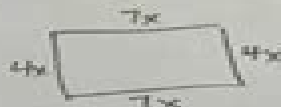
- b) Can you describe the two photos as *congruent*, *similar*, or *neither*?

1 : 5

- c) What is the scale factor of the original photo to the enlarged photo?

$$10 : 50 = 1 : 5$$

- 3) The perimeter of a rectangular living room is 88 feet. The ratio of the width to length is 4 : 7. What is the area of the living room?



$$4x + 7x + 4x + 7x = 88$$

$$22x = 88$$

$$x = 4$$

$$\text{width} = 4(4) = 16 \text{ ft}$$

$$\text{length} = 7(4) = 28 \text{ ft}$$

$$\text{Area} = 16(28) = 448 \text{ ft}^2$$

Part B: Similar Polygons (section 7.2)

- 4) If the ratio of the areas of two similar hexagons is 36 : 49 and the perimeter of the smaller hexagon is 150 feet, find the perimeter of the larger hexagon.

$$\text{ratio of areas} = \frac{36}{49}$$

$$\text{ratio of perimeters} = \frac{6}{7}$$

$$\frac{6}{7} = \frac{150}{P}$$

$$6P = 1050$$

$$P = 175$$

$$\boxed{175 \text{ ft}}$$

- 5) 3 : 4 a) If the ratio of the perimeters of two similar triangles is 3 : 4, what is the ratio of the corresponding side lengths?

9 : 16

- b) What is the ratio of the areas?

Geometry Semester 2 Review Polygon Answer Key

RD Boyd



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