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) _______ The measure of the angles of a quadrilateral have the ratio 2 : 3 : 4 : 6. Find the measure of the largest angle.

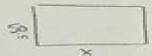


$$2x + 3x + 4x + 6x = 360$$

 $15x = 360$
 $x = 24$
 $largest = 6(34) = 144$

(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:





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



$$4x + 7x + 4x + 7x = 88$$
 width = $4(9) = 16 ft$
 $22x = 88$ length = $7(4) = 28 ft$
 $x = 4$ Area = $16(28)$
 $= 448 ft^2$

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.

$$\frac{6}{7} = \frac{150}{9}$$
 $69 = 1050$

- 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?

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Nichols

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