Similarity: Review

1-2. Identify the scale factor of the following objects. Describe how the scale factor affects the objects' perimeter and area.

1.

2.

8   6

8   12

Y

26

24

A

X   Z
   B
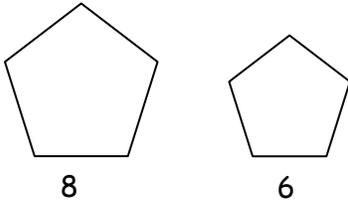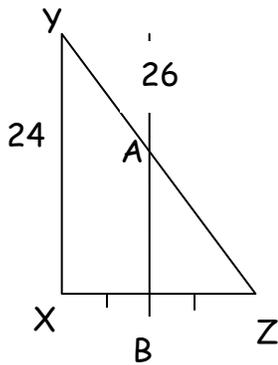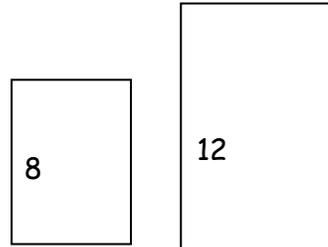
3-4. True or False. Defend your response.
   3. ΔABZ ~ ΔYXZ   4. ΔZYX ~ ΔAZB

5-6. Write similarity statements for the figures below
Calculate m∠θ if m∠B = 40.

5. m∠θ =

D   A

B

θ

C

6. m∠θ =

B

D   θ   E

A

C
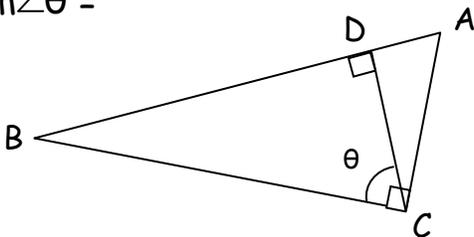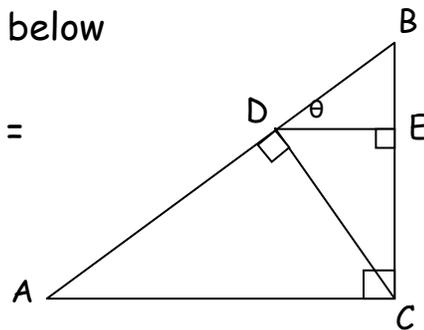
7-8. Identify which is ∠A

7. sin $^{12}/_{13}$

8. cos $^4/_5$

∠1

∠2

C

5.9   9.6

A   B
   10.5
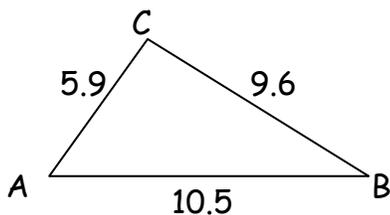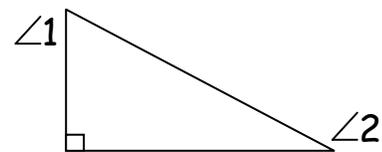
9-10. Use the triangle to the left.
   9. Identify m∠B.
   10. Identify the area of ΔABC

Answer Key

Similarity: Review

1. SF = ¾ ; sides are multiplied by ¾; area is dilated by 9/16

2. SF = 3/2; sides are multiplied by 3/2; area is dilated by 9/4

3. True

4. False. The order of the angles do not correspond

5. ABC ~ CBD ~ ADC; m∠θ = 50°

6. ABC ~ ACD ~ BCD ~ CDE ~ DBE; m∠θ = 50°

7. ∠1

8. ∠2

9. 33.8

10. 17.2