GRADE 9 ADVANCED

Chapter 15 – Revision Sheet

1. **PETS** Out of a survey of 1000 households, 460 had at least one pet. What is the ratio of pet owners to households?

   (A) 23 : 50   (B) 2 : 5   (C) 3 : 5   (D) 20 : 50

2. Solve $\dfrac{2}{3} = \dfrac{x}{24}$

   (A) 10   (B) 16   (C) 14   (D) 20

3. Solve $\dfrac{x-3}{3} = \dfrac{5}{8}$

   (A) 10.213   (B) 16.32   (C) 4.875   (D) 20

4. The ratio of the measures of the three sides of a triangle is 9 : 7 : 5. Its perimeter is 191.1 inches. Find the measure of each side.

   (A) 10.2, 81.9, 63.7   (B) 81.9, 63.7, 45.5   (C) 10.2, 81.65, 63.7   (D) 81.9, 81.9, 63.7

5. Find the measures of the triangle.
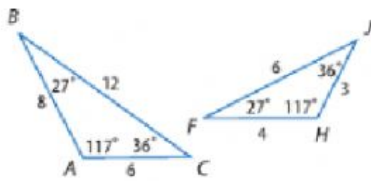   The ratio of the measures of the three angles is $3:6:1$.

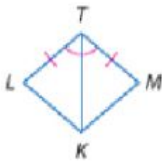   (A) 54, 18, 108   (B) 54, 108, 18   (C) 18, 108, 54   (D) 54, 18, 10

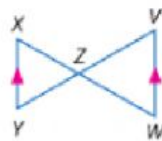| 6.	Determine whether the triangles are similar or not.

(A) Yes   (B) No

7.	Determine whether the triangles are similar or not.

(A) Yes   (B) No

8.	Determine whether the triangles are similar. If so, write a similarity statement.

(A) Yes, by AA Similarity
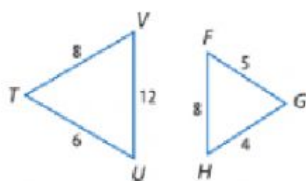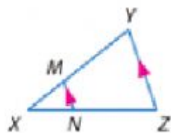
(B) Yes, by SSS Similarity

(C) Yes, by SAS Similarity

(D) No

9. Determine whether the triangles are similar. If so, write a similarity statement.

(A) Yes, by AA Similarity

(B) Yes, by SSS Similarity

(C) Yes, by SAS Similarity

(D) No

10. If $XM = 4$, $XN = 6$, and $NZ = 9$, find XY.

(A) 9   (B) 8   (C) 10   (D) 11