



Write the letter for the correct answer in the blank at the right of each question.

1. There are 15 plums and 9 apples in a fruit bowl. Find the ratio of apples to plums. 1. _____

A. 3:5 B. 3:8 C. 5:3 D. 8:3

2. The scale drawing of a porch is 8 inches wide by 12 inches long. If the actual porch is 12 feet wide, find the length of the porch. 2. _____

A. 8 ft B. 10 ft C. 16 ft D. 18 ft

3. Solve $\frac{5}{6} = \frac{4}{x}$. 3. _____

A. 4.6 B. 4.8 C. 5 D. 7

4. A quality control technician checked a sample of 30 bulbs. Two of the bulbs were defective. If the sample was representative, find the number of bulbs expected to be defective in a case of 450. 4. _____

A. 24 B. 30 C. 36 D. 45

5. Find the triangle similar to $\triangle ABC$ at the right. 5. _____



6. Find x if $\triangle ABC \sim \triangle JKL$. 6. _____

A. 10 B. 14
C. 25 D. 29



7. Quadrilateral $ABCD \sim$ quadrilateral $PQRS$. If $AB = 10$, $BC = 6$, $PS = 12$, and $QR = 4$, find the scale factor of $ABCD$ to $PQRS$. 7. _____

A. $\frac{1}{2}$ B. $\frac{3}{2}$ C. $\frac{5}{3}$ D. $\frac{5}{6}$

8. If quadrilateral $ABCD \sim$ quadrilateral $EFGH$, find x . 8. _____

A. 15 B. 20
C. 25 D. 30



9. Which theorem or postulate can be used to prove that these two triangles are similar? 9. _____

A. AA B. SAS C. SSA D. SSS



10. Find MN . 10. _____

A. $5\frac{1}{2}$ B. $6\frac{3}{4}$ C. 7 D. 12



Geometry Chapter Test Form A

Carla C. Kirkland, Chan Cleveland

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