**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Term 3 Review Homework Day 1**

1. There are 15 plums and 9 apples in a fruit bowl. What is the ratio of apples to plums?

**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, what is the length of the porch?

**F** 8 ft **G** 10 ft **H** 16 ft **J** 18 ft

3. The ratio of goats to sheep at a university research farm is 4:7. The number of sheep at the farm is 28. What is the number of goats?

A. 20 B. 16 C. 49 D. 21

4. Find the value of *x*.

**A.** **B.** **C.** **D.** **E.**

5. The three sides of a triangle are in the ratio 2:5:13. If the shortest side is 4 meters long. Find the value of the other two sides.

6. ⊿ABC ~ ⊿LMN, AB = 18, BC = 12, LN = 9, and LM = 6. What is the scale factor of ⊿ABC to ⊿LMN?

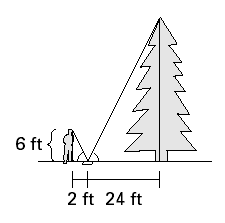
7. **.** ⊿ABC ~ ⊿DEF. Find the value of x.

8. The figure shows two right angles. The length of is *x* and the length of is 24. Solve for *x*.

1. 16.0
2. 17.6
3. 9.6
4. 12.0
5. 24.0

9. Which postulate or theorem would correctly prove the two triangles similar?



10. To find the height of a very tall pine tree, you place a mirror on the ground and stand where you can see the top of the pine tree. How tall is the tree?

11. is a midsegment of ⊿AEC. Find the length of .

A. 2 B. 10 C. 12 D. 5 E. 6

12. and are parallel. Which of the following statements is true?

