Review Worksheet-Test over Factoring, Radicals, Sections 7.1,2,3,4,5,6, 10.7
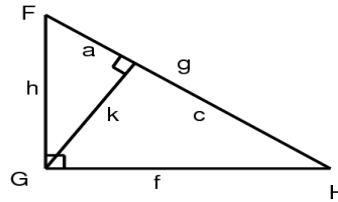
Give the simplified answer to each of the following.

1) $\sqrt{99}$ 2) $\sqrt{56}$ 3) $7\sqrt{24}$ 4) $\dfrac{8}{\sqrt{2}}$ 5) $\sqrt{18}+\sqrt{72}$

6) $4\sqrt{3} \cdot 9\sqrt{3}$ 7) $5\sqrt{3}+3\sqrt{3}$

Find the Geometric mean between the following two numbers.

8) 7 and 10   9) 3 and 12

Use the following picture to answer questions 10 – 13.

10) If a = 6 and C = 8, find k.

11) If h = 12 and a = 9, find g.

12) If a = 5 and c = 10, find f.

13) In a right triangle, the hypotenuse is 17 and the short leg is 8, find the other leg?

14) In a right triangle, the legs are 14 and 8, find the length of the hypotenuse.

15) Can the lengths of 24, 32, and 40 make a right triangle?