

Simplify the radicals

1)  $\sqrt{75}$

2)  $\sqrt{64}$

3)  $\sqrt{5} \cdot \sqrt{10}$

4)  $\sqrt{3} \cdot \sqrt{3}$

5)  $\frac{\sqrt{9}}{\sqrt{25}}$

6)  $\frac{5}{\sqrt{8}}$

7)  $\frac{\sqrt{30}}{\sqrt{6}}$

8)  $2\sqrt{12} \cdot 4\sqrt{15}$

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

5) \_\_\_\_\_

6) \_\_\_\_\_

7) \_\_\_\_\_

8) \_\_\_\_\_

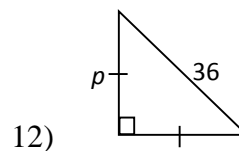
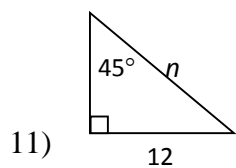
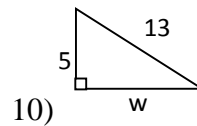
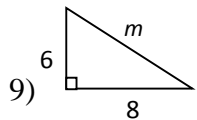
9) \_\_\_\_\_

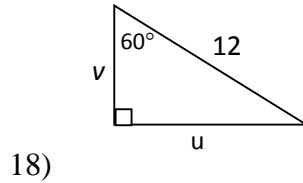
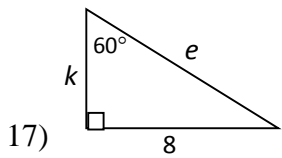
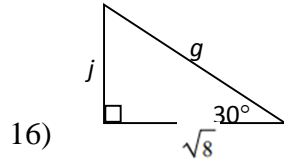
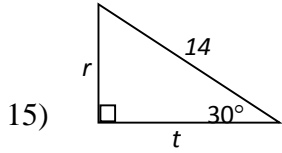
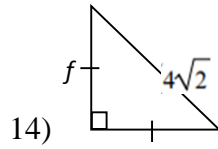
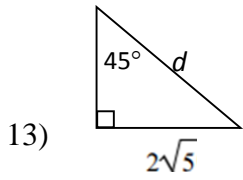
10) \_\_\_\_\_

11) \_\_\_\_\_

12) \_\_\_\_\_

Find the missing lengths of the right triangles below.





- 13) \_\_\_\_\_  
 14) \_\_\_\_\_  
 15)  $r =$  \_\_\_\_\_  
        $t =$  \_\_\_\_\_  
 16)  $g =$  \_\_\_\_\_  
        $j =$  \_\_\_\_\_  
 17)  $k =$  \_\_\_\_\_  
        $e =$  \_\_\_\_\_  
 18)  $v =$  \_\_\_\_\_  
        $u =$  \_\_\_\_\_  
 19) \_\_\_\_\_  
 20) \_\_\_\_\_

19) An equilateral triangle has a side length of 10 inches. Find the length of the triangle's altitude.

20) The perimeter of a square is 48 meters. Find the length of the diagonals.