

## Square Roots

1. Find the value of each expression.

a)  $\sqrt{16} - \sqrt{4}$

b)  $3\sqrt{25} + 4\sqrt{16}$

c)  $\sqrt{\frac{1}{4}} + \sqrt{\frac{5}{9}}$

d)  $9 \div \sqrt{9} - 9$

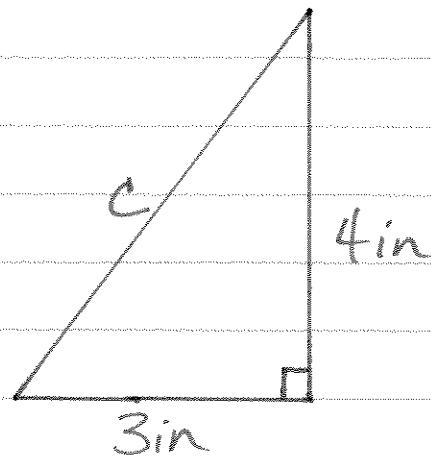
e)  $\sqrt{25-16} + \sqrt{4+5}$

f)  $\sqrt{16-7} + 7$

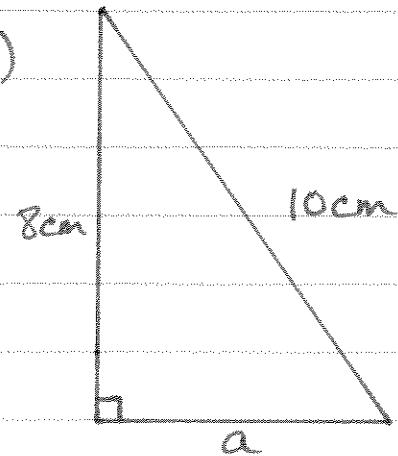
2. Find the missing side length.

$$\text{Note: } c^2 = a^2 + b^2$$

a)



b)



## Square Roots

1. Find the value of each expression.

a)  $\sqrt{16} - \sqrt{4}$

$4 - 2$

2

b)  $3\sqrt{25} + 4\sqrt{16}$

$3 \cdot 5 + 4 \cdot 4$

$15 + 16$

31

c)  $\sqrt{\frac{1}{4}} + \sqrt{\frac{1}{9}}$

$\frac{1}{2} + \frac{1}{3}$   $LCM = 6$

$\frac{3}{6} + \frac{2}{6}$

5  
6

d)  $9 \div \sqrt{9} - 9$

$9 \div 3 - 9$

$3 - 9$   
-6

e)  $\sqrt{25-16} + \sqrt{4+5}$  f)  $\sqrt{16-7} + 7$

$\sqrt{9} + \sqrt{9}$

$3 + 3$

6

$\sqrt{9} + 7$

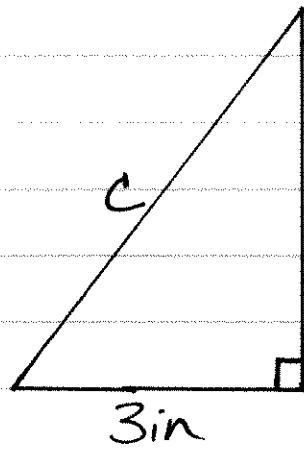
$3 + 7$

10

2. Find the missing side length.

$$\text{Note: } c^2 = a^2 + b^2$$

a)



4 in

3 in

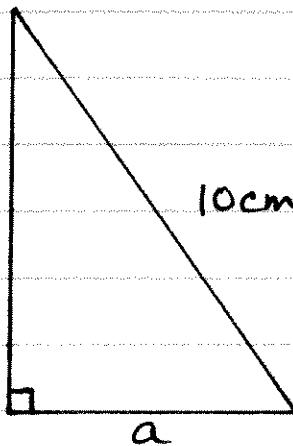
$$c^2 = 3^2 + 4^2$$

$$c^2 = 9 + 16$$

$$c^2 = 25$$

$$(c = 5 \text{ in})$$

b)



8 cm

10 cm

a

$$c^2 = a^2 + b^2$$

$$10^2 = a^2 + 8^2$$

$$100 = a^2 + 64$$

$$-64 \quad -64$$

$$36 = a^2$$

$$6 = a$$

$$(a = 6 \text{ cm})$$