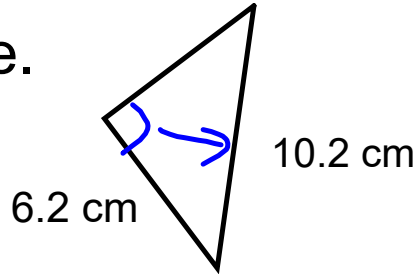


Warm-Up

November 27, 2018

#1 Find the unknown side.



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

$$10.2^2 = 6.2^2 + b^2$$

$$104.04 = 38.44 + b^2$$

$$\sqrt{b^2} = \sqrt{65.6}$$

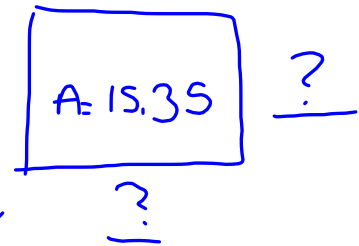
$$b = 8.1$$

#2

* The area of a square mat is 15.35 m^2

$$\text{side length} = \sqrt{\text{Area}}$$

$$= \sqrt{15.35}$$



A. Determine the perimeter of the mat: 3.92

$$P = S_1 + S_2 + S_3 + S_4 \quad \text{or} \quad P = 4S$$

$$= 3.92 + 3.92 + 3.92 + 3.92$$

$$P = 15.68$$

B. The owner decides to make this area larger by adding on 20.20 m^2 of material to the mat. What is the new side length of the mat?

$$15.35 + 20.20$$

Area 35.55

$$\text{Side length} = \sqrt{35.55}$$

$$= 5.96 \text{ m}$$

Test Thursday

→ Square Root top
Square Root bottom

1. Using fractions find the square root of the following:

A. 1.21

$$\frac{\sqrt{121}}{\sqrt{100}} = \frac{11}{10}$$

B. 9/25

$$\sqrt{\frac{9}{25}} = \frac{3}{5}$$

2. Which of the following are perfect squares? [remember fractions should be in lowest terms] Solve using fractions

A. $\frac{48}{120}$ NO

$$\frac{12}{30} = \frac{6}{15} \text{ NO}$$

$$\frac{2}{5} \text{ NO}$$

B. 1.6 $\frac{16}{10}$ YES

$$\frac{8}{5} \text{ NO}$$

$$\frac{5}{5} \text{ NO}$$

C. 0.04

$$\frac{4}{100} \leftarrow 2 \times 2$$

$$\text{Yes} \uparrow 10 \times 10$$

3. What is the number that has a square root of 0.8 Use fractions

$$\sqrt{\frac{64}{100}} = \frac{8}{10} \leftarrow \frac{8}{10}$$

4. What are the benchmarks to approximate the square root of [Which perfect squares can be used to estimate the square root...]

a. 58

$$\sqrt{49} = 7$$

$$\sqrt{64} = 8$$

b. 4.8

$$\sqrt{4} = 2$$

$$\sqrt{9} = 3$$

c) $\sqrt{\frac{36}{100}} = \frac{6}{10}$

$$\sqrt{\frac{49}{100}} = \frac{7}{10}$$

#19 [b] from yesterday C11 92.19c2

Chapter 1 Test Practice...with worked out answers! **#2, #3, #4...for these questions solve using fractions!!!**

7/17/18 Test Review Page 45-47
 2 [a,c,e,g]
 3 [a,c,e,g],
 4 all
 5 [a,]
 6 all
 12 [a], 15,

Use Fractions when needed

1. Side length Square $\sqrt{\text{Area}}$
2. When deciding if a perfect square if "no" put in lowest terms then decide
3. SA linking cubes
 - ① SA of 1 cube \times #cubes
 - ② #cubes - faces lost

