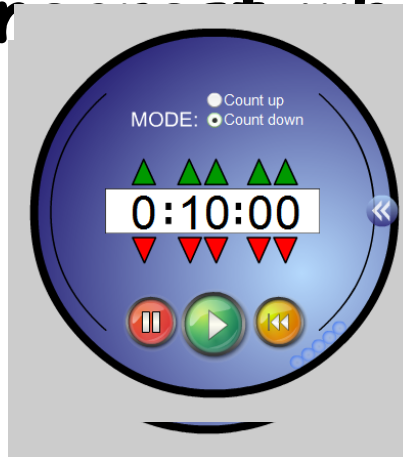


Complete the surface area question...round your answer to the nearest whole number

$$A = bh$$



$$SA = 2\pi r^2 + 2\pi r h$$

$$A = \frac{bh}{2}$$

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

Warm-Up

Nov. 26/15

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

A. Determine the perimeter of the mat.

$\sqrt{\text{Area}} = \text{length of one side}$
 $P = S_1 + S_2 + S_3 + S_4$ OR $P = 4s$
 $= 4 \times 3.9$
 $= 15.6 \text{ m}$

A hand-drawn diagram of a square. Inside the square, the text reads "A = 15.35 m²". To the right of the square, the number "3.91" is written vertically, indicating the side length.

B. The owner decides to add on 20.20 m^2 of material to the mat. What is the new side length of the mat?

$$15.35 + 20.20 = 35.55 \text{ m}^2$$

$$\text{Area} = 35.55$$

length of one side = $\sqrt{35.55}$
 side = 5.96 m

Test
Tuesday

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

A. $\sqrt{1.21} = \sqrt{\frac{121}{100}} = \frac{11}{10}$ B. $\sqrt{\frac{9}{25}} = \frac{3}{5}$

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

A. $\frac{48}{120} = \frac{2}{5}$ (2 ← no, 5 ← no) B. 1.6 = $\frac{16}{10} = \frac{8}{5}$ (8 ← no, 5 ← no) (NO)
C. 0.04 = $\frac{4}{100} = \frac{1}{25}$ (4 ← 2x2, 100 ← 10x10) (yes)
D. $\frac{169}{49} = \frac{13}{7}$ (169 ← 13x13, 49 ← 7x7) (yes)

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

$\sqrt{?} =$

A. 0.8 = $\sqrt{\frac{64}{100}} = \frac{8}{10}$ B. $\frac{2}{4}$ $\sqrt{\frac{4}{16}} = \frac{2}{4}$

4. What are the benchmarks to approximate the square root of:

a) $\sqrt{\frac{38}{10}}$ → $\sqrt{\frac{36}{9}} = \frac{6}{3}$

$\sqrt{1} = 1$ $\sqrt{3.8}$ $\sqrt{4} = 2$ $\sqrt{\frac{361}{100}} = \frac{19}{10}$ $\sqrt{\frac{380}{100}}$ $\sqrt{\frac{400}{100}} = \frac{20}{10}$

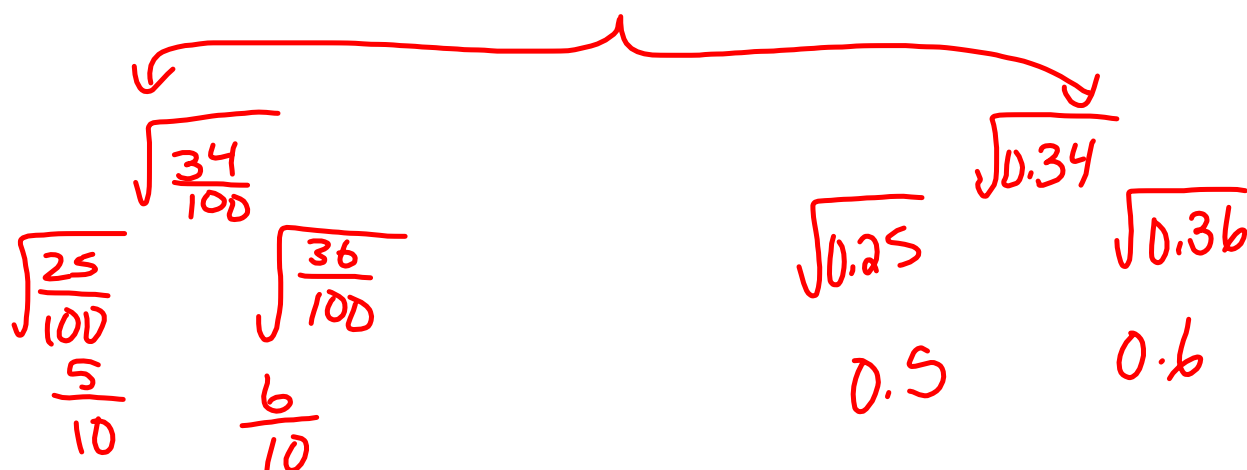
b) $\sqrt{\frac{34}{47}}$ $\sqrt{\frac{36}{49}} = \frac{6}{7}$

c) $\sqrt{\frac{81}{10}}$ $\sqrt{8.1}$ $\sqrt{4} = 2$ $\sqrt{9} = 3$

d) $\sqrt{\frac{14}{10}}$ $\sqrt{\frac{140}{100}}$ $\sqrt{\frac{121}{100}} = \frac{11}{10}$ $\sqrt{\frac{144}{100}} = \frac{12}{10}$

Benchmarks

e) $\sqrt{0.34}$



Homework

Page 45 2 [a,c,e,g]

3 [a,c,e,g], 4 all, 5 [a,c,e]

6, 7, 8, 12, 15, 16 [c]



2. Practice test questions

