January 15, 2019

Warm-Up

Write using a power of 10.

37 241

 $30\ 600 + 7008 + 200 + 40 + 1$  $3\times10^{4} + 7\times10^{3} + 2\times10^{2} + 9\times10' + 1\times10^{3}$ 



$$\frac{3^{6} \times 3^{7}}{3^{8}} + (2^{3} \times 2)^{2} - (-1)^{0}$$

$$\frac{3^{13}}{3^{8}} + (2^{4})^{2} - (-1)^{0}$$

$$\frac{3^{13}}{3^{8}} + (2^{4})^{2} - (-1)^{0}$$

$$\frac{3^{13}}{3^{8}} + (2^{4} \times 2)^{2} - (-1)^{0}$$

## **Simplify**

L Use exponent laws

$$(2^{12} \div 2^{10})^2 \times (4^8 \div 4^7) + 3^2$$

$$(2^3)^2 \times 4' + 3^3$$

## Simplify → Use Exponent Rules

A. 
$$(3^3 \times 3^3)^2 - (2^5 \div 2^3)^3 \times (4^3 \times 4^5)^0$$

$$(3^5)^3 - (2^5)^3 \times (4^7)^0$$

$$3^{12} - 2^6 \times 4^0$$

#### Warm-Up

January 15, 2020

### **Evaluate**

$$\frac{3^2(5^0+2+2^2)}{2(5+4^2)}$$

$$\frac{9(1+2+4)}{2(5+16)}$$

$$\frac{9(7)}{2(21)}$$

2. 
$$\frac{(-4)^{3} \times (-4)^{4}}{(-4)^{2} \times (-4)^{3}} + 3^{4}$$
$$\frac{(-4)^{7}}{(-4)^{5}} + 3^{4}$$
$$\frac{(-4)^{7}}{(-4)^{5}} + 3^{4}$$
$$\frac{(-4)^{7}}{(-4)^{7}} + 3^{4}$$

# 1.Exam Review questions 20-28 ...show work



Exam Review Unit 1 Chapter 1

Perfect Squares

Surface Area

## Which of the following are perfect squares?

decimal to fraction

Example 0.64: 64

100

$$\frac{9}{10} \in 10$$





Find the square root of the following using Fractions

a) 
$$81 = 9$$
 $\sqrt{100} = 10$ 
b)  $121 = 11$ 
 $\sqrt{25} = 3$ 
 $\sqrt{25} = 35$ 
d)  $6.25 = \sqrt{25} = 35$ 

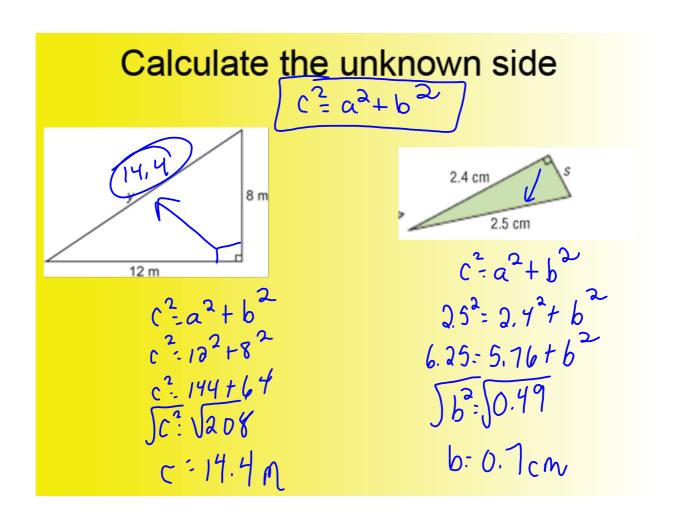
d) 6.25 5625 25

## Find the number whose square root is: Use fractions!!!

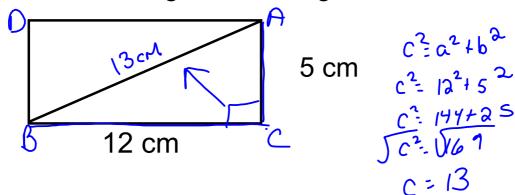
$$\frac{9}{25}$$

$$\int \frac{?}{?} = \frac{9}{25} \times \frac{9}{25}$$

$$\frac{?}{625}$$

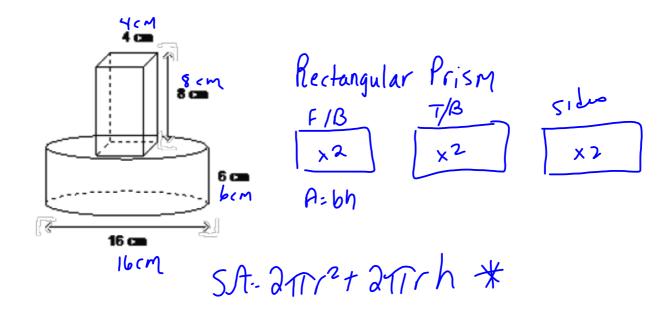


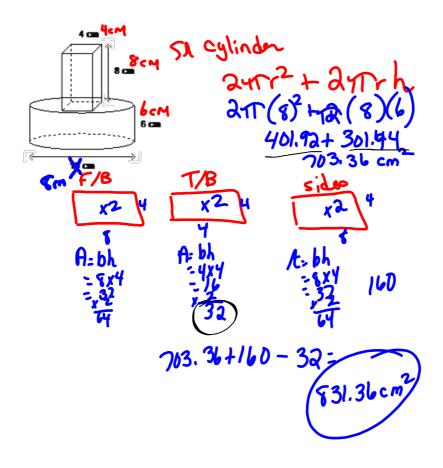
What is the length of the diagonal?

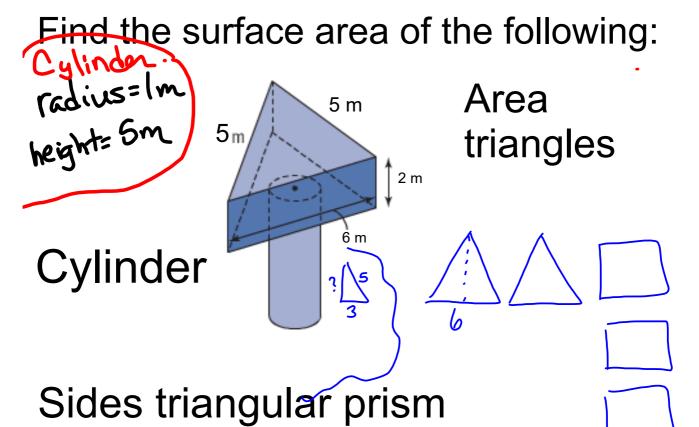


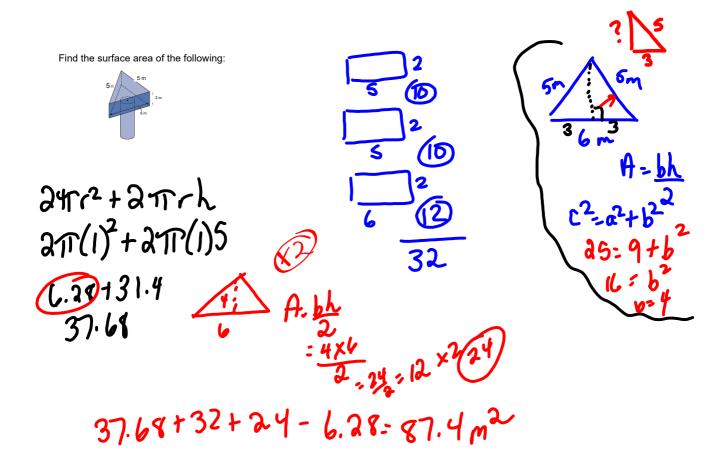
How much distance is saved if you walk the diagonal from A to B versus walking the lines 17cm to walk around 13cm to walk diagon 4cm saved

from A to B?









What must be done...

- 1.All of Chapter 1 Square Roots and Surface Area Review questions 1-22
- 2. two questions involving triangular prisms

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