

March 7, 2019

Periods 1,2,4,6

Warm Up - none today

Class Work -

1. Make corrections on quiz

2. Foldables-

Volume

Surface Area

Homework - finish making foldables, do not find volumes or surface areas of the figures.

$-\frac{1}{2}$

unit
decimal
pt

Quiz 15.3 #3

Solution

Two parts.

Part A-

One cubic foot of water = ~7.5 gallons.

A rectangular sink holds 50.4 gallons of water.

It has a length of 3 ft. and a height of 1.4 ft.

What is the VOLUME of the sink?

$$\frac{50.4}{7.5} = \text{Volume of Sink}$$

solution-

Find the volume by dividing the # of gallons by 7.5 gallons to get the number of cubic feet of water.

Part B-

What is the width of the sink. You are given the length and the height.

You found the volume in Part A. $V = LWH$

$$\text{Answer to Part A} = 3\text{ft} \cdot W \cdot 1.4\text{ft.}$$

$$\frac{4.2\text{ft}^2 \cdot W}{4.2\text{ft}^2} = W$$

$$\begin{array}{r} V = 4.2 \cdot W \\ \hline 4.2 \quad 4.2 \\ \hline = W \end{array}$$

When dividing decimals:

the divisor **MUST** be a whole number.

However many times the decimal is moved to the right in the divisor, it must be moved the same number of times in the dividend

divisor $\overline{)$ dividend

$$\begin{array}{r} 4.65 \\ \xrightarrow{\quad} \end{array} \overline{) 36.27} \xrightarrow{\quad}$$

$4.65 \times 100 = 465$ $36.27 \times 100 = 3627$

$$465 \overline{) 3627.}$$

Keep adding and bringing down decimals until you reach zero or determine the quotient is a repeating decimal.

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Period 5

Warm Up - Writing Equations pg. 28

Class Work-

Writing Notes

Writing Equations - pg. 31

$$4^2 = 16$$

$$2 \cdot 4 = 8$$

WARM UP-

A number decreased by 4

$$X - 4$$

The sum of twice a number and three

$$2X + 3$$

$$\frac{10}{X}$$

It rained four inches yesterday. Today it rained X inches more.

Kalin shared ten pieces of candy with X friends.

$$4 + X$$

Writing Equations NOTES

Key Words:

Addition-

plus
altogether
increased by
total
credit
elevate,
gain
sum
inflate
add
in all
deposit
added to
more

Subtraction

minus
take away
decreased by
less than
fewer than
decline
withdraw
difference

Multiplication

times
of
product
twice
cubed
factors

Division

quotient
each
rate
goes into
per
out of
average

$$X - Y^3$$
$$-7 - (3^3)$$
$$-7 - 27$$

$$X = -7$$
$$Y = 3$$

$$X + X + X = 24$$

$$\cancel{3}X = 24$$

$$\cancel{3} \quad \quad \quad \cancel{3}$$

$$1X$$

$$X = 8$$

zero
pair

$$\cancel{X} \oplus \cancel{3} = 19$$

$$\cancel{-3} \quad \quad \quad -3$$

$$X + 0 = 16$$

$$\boxed{X} = (16)$$

$$x \div 2 = 8$$

$$(2) \frac{x}{2} = 8 (2)$$

$$\left(\frac{2}{1}\right) \frac{x}{2} = 16$$

$$\frac{2x}{2} = 16$$

$$(x = 16)$$

$$45 - \cancel{x} = 30$$

$$\quad \quad \quad \cancel{+x} \quad \quad \quad \cancel{+x}$$

$$45 = 30 + \cancel{x}$$

$$\underline{-30 \quad -30}$$

$$15 = x$$

