

10-30-17

Aim: SWBAT review.

HW: Test tomorrow (rounding, add, subtr, mult, div, and wp)

Do Now: Check hw

Pg. 263-264 # 44, 45, 47, 50

$$\begin{array}{r} 58.81 \\ - 55.49 \\ \hline 2.52 \end{array}$$

The difference was 2.52 sec.

$$\begin{array}{r} 28.12 \\ - 21.16 \\ \hline 1.96 \end{array}$$

The world record throw was 1.96 m longer.

$$\begin{array}{r} 22.47 \\ - 21.16 \\ \hline 1.31 \end{array}$$

The Olympic record throw was 1.31 m longer.

$$\begin{array}{r} 4.52 \\ 5.23 \\ + 3.41 \\ \hline \end{array}$$

12 inches not including decimal parts.



$$2(1.0079) + 15.9994$$

$$2.0158 + 15.9994$$

$$18.0152$$

The mass of one mole of water is 18.0152 grams.

$$\begin{array}{r} 1.0079 \\ \times 2 \\ \hline 2.0158 \end{array}$$

$$\begin{array}{r} 2.0158 \\ + 15.9994 \\ \hline 18.0152 \end{array}$$

Pg. 268-269 # 46, 48, 54, 55

(46) Baby's weight = $0.038 \times$ Mother's weight

$$(0.038)(3600)$$

$$\begin{array}{r} 3600 \\ \times 0.038 \\ \hline 28800 \\ 10800 \\ 0000 \\ + 0000 \\ \hline 0136800 \end{array}$$

The baby weighs 136.8 pounds.

48 $14.75 \div 0.89$

$$\begin{array}{r} 0.89 \overline{) 14.75} \\ \underline{0.89} \\ 585 \\ \underline{534} \\ 510 \\ \underline{445} \\ 650 \end{array}$$

$$\begin{array}{r} 16.5 \dots \\ 89 \overline{) 1475.00} \\ \underline{89} \\ 585 \\ \underline{534} \\ 510 \\ \underline{445} \\ 650 \end{array}$$

$$\begin{array}{r} 89 \\ \times 6 \\ \hline 534 \end{array} \quad \begin{array}{r} 89 \\ \times 5 \\ \hline 445 \end{array}$$

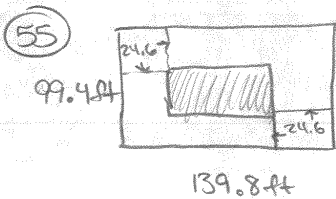
Since you cannot purchase parts of a package, you can only purchase 16 full packages. **(B)**

54 $3.5 - 1.0 = 2.5$ → additional ounces
 so 3, 2 full ounces and 1 partial ounce.

$$\begin{array}{r} \$0.23 \\ \times 3 \\ \hline 0.69 \end{array} \quad \begin{array}{r} \$0.37 \\ + 0.69 \\ \hline 1.06 \end{array}$$

price for additional ounces.

It will cost \$1.06.



$$\begin{array}{r} 24.6 \\ \times 2 \\ \hline 49.2 \end{array} \quad \begin{array}{r} 99.4 \\ - 49.2 \\ \hline 50.2 \\ \text{width} \end{array} \quad \begin{array}{r} 139.8 \\ - 49.2 \\ \hline 90.6 \\ \text{length} \end{array}$$

$A = lw$
 $A = (90.6)(50.2)$
 $A = 4548.12$

$$\begin{array}{r} 90.6 \\ \times 50.2 \\ \hline 1812 \\ 000 \\ +4530 \\ \hline 4548.12 \end{array}$$

The area of the pool is 4548.12 ft².

Change each fraction into a decimal.

$$\frac{8}{25} \times 4 = \frac{32}{100}$$

$$25 \overline{) 8.00} \begin{array}{r} .32 \\ - 75 \downarrow \\ \hline 50 \\ - 50 \\ \hline 0 \end{array}$$

terminating

0.32

$$\frac{7}{20} \times 5 = \frac{35}{100}$$

0.35

$$\frac{1}{6} \quad 0.\overline{16}$$

$$6 \overline{) 1.000} \begin{array}{r} .166 \\ - 6 \downarrow \\ \hline 40 \\ - 36 \downarrow \\ \hline 40 \\ - 36 \downarrow \\ \hline 4 \end{array}$$

repeating

1.40
1.4

$$\frac{5}{11} \quad 0.\overline{45}$$

$$11 \overline{) 5.0000} \begin{array}{r} .4545 \\ - 44 \downarrow \\ \hline 60 \\ - 55 \downarrow \\ \hline 50 \\ - 44 \downarrow \\ \hline 60 \end{array}$$

$$\frac{3}{400} \div 4 = \frac{0.75}{100}$$

$$\frac{0.75 \times 100}{100 \times 100} = \frac{75}{10000}$$

0.0075

Changing Terminating Decimals into Fractions

$$0.\underline{4} = \frac{4}{10} \rightarrow \boxed{\frac{2}{5}}$$

$$0.\underline{62} = \frac{62}{100} = \boxed{\frac{31}{50}}$$

$$-2.\underline{45} = -2\frac{45}{100} = -2\frac{9}{20} = \boxed{-\frac{49}{20}}$$

$$-1.\underline{905} = -1\frac{905}{1000} = \boxed{-\frac{381}{200}}$$

Round	9.8321	101. 9 99	54. 2 985
Nearest Whole	10	102	54
Tenths	9.8	101.99 102.0	54.3
Hundredths	9.83	102.00	54.30
Thousandths	9.832	102.000	54.299

Add or Subtract.

- Double signs, Rewrite, Isolate.
- **Same Signs** -> ADD and KEEP the sign they share
- **Different Signs** -> SUBTRACT (Big # - Small #) and take the sign of the biggest number

$$9.8 + (-2.9) = +6.9$$

$$\boxed{9.8} - \boxed{2.9} = 6.9$$

$$\begin{array}{r} 9.8 \\ -2.9 \\ \hline 6.9 \end{array}$$

$$-9.8 + (-2.9) = -12.7$$

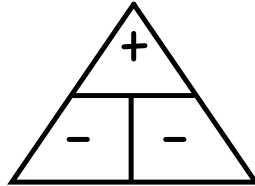
$$\boxed{-9.8} - \boxed{2.9} = -12.7$$

$$\boxed{-9.8} - \boxed{2.9} = -12.7$$

$$\boxed{9.8} + \boxed{2.9} = 12.7$$

$$\begin{array}{r} 9.8 \\ +2.9 \\ \hline 12.7 \end{array}$$

Multiply and Divide



- **Multiply** - Line up final digits. Longest # on top.
- **Divide** - Move the decimal on the outside. Then, move the decimal inside the same number of places.

$(-9.3)(1.375) = -12.7875$

Handwritten multiplication work:

$$\begin{array}{r}
 \overset{3}{\times} \overset{6}{\times} \overset{4}{\times} \\
 1.375 \\
 \times \quad 9.3 \\
 \hline
 4125 \\
 + 12375 \times \\
 \hline
 12.7875
 \end{array}$$

Arrows point from the final digits of the two numbers to the final digits of the product.

$10.5 \div 2.75 = 3.81$

Handwritten division setup: $2.75 \overline{) 10.50}$

Handwritten long division work:

$$\begin{array}{r}
 \overset{3}{\times} \overset{2}{\times} \overset{1}{\times} \overset{1}{\times} \overset{2}{\times} \overset{2}{\times} \\
 275 \overline{) 1050.0000} \\
 \underline{- 825} \downarrow \\
 2250 \\
 \underline{- 2200} \downarrow \\
 4800 \\
 \underline{- 2750} \downarrow \\
 2250 \\
 \underline{- 2200} \downarrow \\
 500
 \end{array}$$