

10-29-18

Aim: SWBAT review.

HW: Test tomorrow

Do Now: Check hw

Evaluate if  $a = 6.28$  and  $b = -0.35$ . Write your answer as a decimal.

1. $a - \frac{5}{2}$ $6.28 - 2.5$ $3.78$	2. $\frac{3}{8} + a$ $0.375 + 6.28$ $6.655$	3. $b - \frac{3}{4}$ $-0.35 - 0.75$ $-1.1$	4. $\frac{9}{2} + b$ $4.5 + (-0.35)$ $4.5 - 0.35$ $4.15$
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Evaluate.

5. $(-3.4 + 5.4)^2 - 1.3$ $2^2 - 1.3$ $4 - 1.3$ $2.7$	6. $\frac{2}{3} + \frac{3}{5} + 3^2$ $\frac{2}{3} = \frac{4}{6}$ $\frac{4}{6} + \frac{3}{5} + 9$ $\frac{4}{15} + 9$ $10\frac{4}{15}$	7. $2 \cdot \frac{2}{3} + (-1\frac{1}{4})$ $1\frac{1}{3} = \frac{4}{3}$ $1\frac{1}{3} - 1\frac{1}{4}$ $\frac{4}{3} - \frac{1}{4}$ $\frac{16}{12} - \frac{3}{12}$ $\frac{13}{12}$
8. $-5\frac{2}{9} + 3.7 + 5\frac{2}{9}$ $3.7$	9. $-24 - (-\frac{1}{2}) - 12.5$ $-24 + 0.5 - 12.5$ $-24 - 12$ $-36$	10. $16(\frac{-3}{8}) + 16(\frac{1}{4})$ $-6 + 4$ $-2$
11. $-5\frac{5}{7} + 8 - 3\frac{2}{7}$ $-8\frac{2}{7} + 8$ $-9 + 8$ $-1$	12. $\frac{16}{20} + (-1.8) - \frac{4}{5}$ $\frac{4}{5} + 1.8 - \frac{4}{5}$ $1.8$	13. $3\frac{1}{6} + 20.3 + 5\frac{5}{6}$ $8\frac{6}{6} + 20.3$ $9 + 20.3$ $29.3$

14.  $-2.2 \cdot (-2) \div (-\frac{1}{4}) \cdot 5$

$$\begin{aligned} & -2.2 \cdot (-2) \cdot -4 \cdot 5 \\ & -2.2 \cdot (-10) \cdot -4 \\ & 22 \cdot -4 \\ & -88 \end{aligned}$$

15.  $4.2 \cdot (-\frac{1}{3}) \div \frac{1}{6} \cdot (-10)$

$$\begin{aligned} & 4.2 \cdot (-\frac{1}{3}) \cdot 6 \cdot (-10) \\ & (4.2) \cdot -2 \cdot (-10) \\ & -42 \cdot -2 \\ & 84 \end{aligned}$$

16.  $\frac{2}{5} \div (-1 + \frac{3}{5}) - 4^2$

$$\begin{aligned} & \frac{2}{5} \div -\frac{2}{5} - 4^2 \\ & (\frac{2}{5} \cdot -\frac{5}{2}) - 16 \\ & -1 - 16 \\ & -17 \end{aligned}$$

17.

$-2.3 (5.62 - 2.8 + 11.35)$

$-2.3 (16.97 - 2.8)$

$-2.3 (14.17)$

$-32.591$

$$\begin{array}{r} 11.35 \\ + 5.62 \\ \hline 16.97 \end{array}$$

$$\begin{array}{r} 16.97 \\ - 2.8 \\ \hline 14.17 \end{array}$$

$$\begin{array}{r} 14.17 \\ \times 2.3 \\ \hline 4251 \\ + 28340 \\ \hline 32591 \end{array}$$

18.

$3\frac{3}{4} + (8.8 \div 4)$

$3.75 + 2.2$

$5.95$

$$\begin{array}{r} 3.75 \\ + 2.2 \\ \hline 5.95 \end{array}$$

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

Round	9.8321	101. <del>9</del> 99	54. <del>2</del> 985
Nearest Whole	10	102	54
Tenths	9.8	<sup>101.99</sup> 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

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

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

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

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

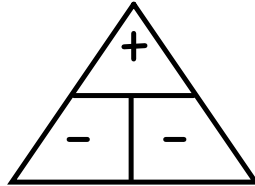
$$\boxed{-9.8} - \boxed{2.9} = -12.7$$

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

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

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

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 showing the alignment of 1.375 and 9.3. The result 12.7875 is underlined with a squiggly arrow pointing to it.

$10.5 \div 2.75 = 3.81$

Handwritten division:  $2.75 \overline{)10.50}$  with arrows indicating the decimal movement.

Detailed handwritten long division for  $10.50 \div 2.75$ . The divisor 275 is written above the dividend 1050.0000. The quotient 3.8181 is written above the dividend. The steps show:  $275 \times 3 = 825$ ,  $275 \times 8 = 2200$ ,  $275 \times 1 = 275$ , and  $275 \times 8 = 2200$ . The final remainder is 500.