

10-27-17

Aim: SWBAT apply decimals to real world applications.

HW: Finish classwork

Test Tuesday

Do Now: Check hw with key

Name _____

Date _____

Order of Operations with Rationals

Period _____

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

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

Evaluate.

| | | |
|---|---|--|
| 5. $(-3.4 + 5.4)^2 - 1.3$ $2^2 - 1.3$ $4 - 1.3$ 2.7 | 6. $\frac{2}{3} - \frac{1}{5} + 3^2$ $\frac{2}{3} + \frac{3}{5} + 9$ $\frac{10}{15} + \frac{9}{15} + 9$ $1\frac{19}{15} + 9$ $10\frac{4}{15}$ | 7. $2 \cdot \frac{2}{3} + (-1\frac{1}{4})$ $\frac{4}{3} - 1\frac{1}{4}$ $\frac{4}{3} - \frac{5}{4}$ $\frac{16}{12} - \frac{15}{12}$ $\frac{1}{12}$ |
| 8. $-5\frac{2}{9} + 3.7 + 5\frac{2}{9}$ 3.7 | 9. $-24 - \frac{1}{2} - 12.5$ $-24 + \frac{1}{2} - 12.5$ $-24 + 0.5 - 12.5$ $-24 - 12$ -36 | 10. $16(\frac{-3}{8}) + 16(\frac{1}{4})$ $-6 + 4$ -2 |
| 11. $-5\frac{5}{7} + 8 - 3\frac{2}{7}$ $-8\frac{7}{7} + 8$ $-9 + 8$ -1 | 12. $\frac{16}{20} - (-1.8) - \frac{4}{5}$ $\frac{4}{5} + 1.8 - \frac{4}{5}$ 1.8 | 13. $3\frac{1}{6} + 20.3 - (-5\frac{5}{6})$ $3\frac{1}{6} + 5\frac{5}{6} + 20.3$ $8\frac{6}{6} + 20.3$ $9 + 20.3$ 29.3 |

Name _____

Date _____

Order of Operations with Rationals

Period _____

| | | |
|---|--|--|
| <p>14. $-2.2 \cdot (-2) \div (-\frac{1}{4}) \cdot 5$</p> <p>$-2.2 \cdot (-2) \cdot (-4) \cdot 5$</p> <p>$-2.2 \cdot (-2) \cdot 5 \cdot (-4)$</p> <p>$-2.2 \cdot (-10) \cdot (-4)$</p> <p>$22 \cdot (-4)$</p> <p>$-88$</p> | <p>15. $4.2 \cdot (-\frac{1}{3}) \div \frac{1}{6} \cdot (-10)$</p> <p>$4.2 \cdot (-\frac{1}{3}) \cdot \frac{6}{1} \cdot (-10)$</p> <p>$4.2 \cdot (-2) \cdot (-10)$</p> <p>$84$</p> <p>$4.2$</p> | <p>16. $\frac{2}{5} \div (-1 + \frac{3}{5}) - 4^2$</p> <p>$\frac{2}{5} \div -\frac{2}{5} - 16$</p> <p>$-1 - 16$</p> <p>$-17$</p> |
|---|--|--|

Evaluate if $x = -5$ and $y = 6$.

| | | |
|--|--|--|
| <p>17. x^2</p> <p>$(-5)^2$</p> <p>25</p> <p>mid ()</p> | <p>18. $-y + x$</p> <p>$-6 + (-5)$</p> <p>-11</p> | <p>19. $\frac{y+4}{2x} \rightarrow \frac{6+4}{2(-5)} \rightarrow \frac{10}{-10} \rightarrow -1$</p> |
|--|--|--|

Evaluate each expression if $a = 3$, $b = -4$, and $c = -8$.

| |
|---|
| <p>20. $\frac{bc}{2} \rightarrow \frac{(-4)(-8)}{2} \rightarrow \frac{32}{2} \rightarrow 16$</p> |
| <p>21. $\frac{c^2}{a-b} \rightarrow \frac{(-8)^2}{3-(-4)} \rightarrow \frac{64}{7}$</p> |
| <p>22. $\frac{c+a}{-2a+b} \rightarrow \frac{-8+3}{(-2)(3)+(-4)} \rightarrow \frac{-5}{-6+(-4)} \rightarrow \frac{-5}{-10} \rightarrow \frac{1}{2}$</p> |

38 $3.4^5 + 5.1 \div 1.7 - 4.89$
 $39.304 + 5.1 \div 1.7 - 4.89$
 $39.304 + 3 - 4.89$
 $42.304 - 4.89$
 37.414

$$\begin{array}{r} 3.4 \\ \times 3.4 \\ \hline 136 \\ + 102 \times \\ \hline 1156 \end{array}$$

$$\begin{array}{r} 11.56 \\ \times 3.4 \\ \hline 4624 \\ + 3468 \times \\ \hline 39304 \end{array}$$

$$1.7 \overline{) 5.1}$$

$$\begin{array}{r} 3 \\ 17 \overline{) 51} \\ - 51 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 311210 \\ 42.304 \\ - 4.890 \\ \hline 37.414 \end{array}$$

39 $6.2 \cdot (18.77 - 6.27) + 9.1^2$
 $6.2 \cdot 12.5 + 9.1^2$
 $6.2 \cdot 12.5 + 82.81$
 $77.5 + 82.81$
 160.31

$$\begin{array}{r} 18.77 \\ - 6.27 \\ \hline 12.50 \end{array}$$

$$\begin{array}{r} 9.1 \\ \times 9.1 \\ \hline 91 \\ + 819 \times \\ \hline 82.81 \end{array}$$

$$\begin{array}{r} 12.5 \\ \times 6.2 \\ \hline 250 \\ + 750 \times \\ \hline 77.50 \end{array}$$

$$\begin{array}{r} 82.81 \\ + 77.50 \\ \hline 160.31 \end{array}$$

lose the zero

- Pg. 263 - 264 # 44, 45, 47, 50
- Pg. 268 - 269 # 46, 48, 54, 55