

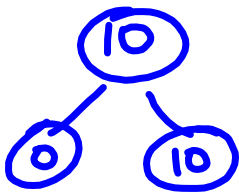
10-13-17

Aim: SWBAT continue to evaluate expressions.

HW: Test Tuesday

Do Now: Evaluate.

$$18 \div \left(-\frac{2}{3}\right) \cdot 14 \div (-7) \cdot (-3) \div \frac{1}{4}$$



$$18 \div \left(-\frac{2}{3}\right) \cdot 14 \div (-7) \cdot (-3) \div \frac{1}{4}$$

$$18 \cdot \frac{-3}{2} \cdot 14 \cdot \frac{-1}{7} \cdot (-3) \cdot 4$$

$$5 \cdot 3 \cdot 2$$

$$-27 \cdot 14 \cdot \frac{-1}{7} \cdot (-3) \cdot 4$$

$$-27 \cdot -2 \cdot (-3) \cdot 4$$

$$-648$$

$$1 + 5 + 3 + 4$$

Name _____

Date _____

Order of Operations with Rationals

Period _____

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

1. $a - \frac{5}{2}$	2. $\frac{3}{8} + a$	3. $b - \frac{3}{4}$	4. $\frac{9}{2} + b$
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Evaluate.

5. $(-3.4 + 5.4)^2 - 1.3$	6. $\frac{2}{3} - \frac{3}{5} + 3^2$ $\frac{2}{3} + \frac{3}{5} + 9$ $\frac{10}{15} + \frac{9}{15} + 9$ $\frac{19}{15} + 9$ $\frac{14}{15} + 9$ $10\frac{4}{15}$	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. $-24 - (-\frac{1}{2}) - 12.5$	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. $\frac{16}{20} - (-1.8) - \frac{4}{5}$	13. $3\frac{1}{6} + 20.3 - (-5\frac{5}{6})$

Name _____

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<p>14. $-2.2 \cdot (-2) \div \left(-\frac{1}{4}\right) \cdot 5$</p>	<p>15. $4.2 \cdot \left(-\frac{1}{3}\right) \div \frac{1}{6} \cdot (-10)$</p>	<p>16. $\frac{2}{5} \div \left(-1 + \frac{3}{5}\right) - 4^2$</p> <p style="text-align: center; color: red;"> $\frac{2}{5} \div -\frac{2}{5} - 16$ $-1 - 16$ -17 </p>
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Evaluate if $x = -5$ and $y = 6$.

<p>17. x^2</p> <p style="color: red;"> $(-5)^2$ 25 </p> <p style="color: green; font-size: small;"> need () </p>	<p>18. $-y + x$</p> <p style="color: red;"> $-6 + (-5)$ -11 </p>	<p>19. $\frac{y+4}{2x} \rightarrow \frac{6+4}{2(-5)} \rightarrow \frac{10}{-10} \rightarrow -1$</p>
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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>

$$24 \cdot \left(\frac{-3}{2}\right)$$

$$-36$$

$$-50 \cdot \left(\frac{-101}{25}\right)$$

$$202$$

$$52 \left(\frac{3}{26}\right)$$

$$6$$

$$-\pi \left(\frac{36}{\pi}\right)$$

$$-36$$

$$24 \cdot \left(\frac{-4}{3}\right)$$

$$-32$$