

Curriculum Outcome

N1: Demonstrate an understanding of rational numbers by: comparing and ordering rational numbers; solving problems that involve arithmetic operations on rational numbers.

**Student Friendly:
"BEDMAS with fractions and decimals"**



Warm Up



1)

$$\begin{aligned}
 & \left(-1\frac{3}{4}\right) - \left(-3\frac{1}{2} + 5\right) \left(-3\frac{1}{2} + 5\right) \\
 &= \left(\frac{-7}{4}\right) - \left(\frac{-7}{2} + \frac{5}{1}\right) \left(\frac{-7}{2} + 5\right) \\
 &= \left(\frac{-7}{4}\right) - \left(\frac{-7}{2} + \frac{10}{2}\right) \left(\frac{-7}{2} + \frac{10}{2}\right) \\
 &= \left(\frac{-7}{4}\right) - \left(\frac{3}{2}\right) \left(\frac{3}{2}\right) \\
 &= \frac{-7}{4} - \frac{9}{4} \\
 &= \frac{-16}{4} \\
 &= -4
 \end{aligned}$$



Warm Up



Do we need more practice?

$$\left(-\frac{1}{2}\right)^2 - \left(-\frac{2}{3}\right) \div \left[\frac{1}{3} + \left(-\frac{1}{4}\right)\right]$$

$$\left(-\frac{1}{2}\right)^2 - \left(-\frac{2}{3}\right) \div \left[\frac{4}{12} + \frac{-3}{12}\right]$$

$$\left(-\frac{1}{2}\right)^2 - \left(-\frac{2}{3}\right) \div \left[\frac{1}{12}\right]$$

$$\left(\frac{1}{4}\right) - \left(\frac{-2}{3}\right) \times \frac{12}{1}$$

$$\frac{1}{4} - \frac{-8}{1}$$

$$\frac{1}{4} + \left(+\frac{32}{4}\right)$$

$$= \frac{33}{4}$$

$$8 \frac{1}{4}$$

$$\frac{8 \times 5 - 48 \div (-2)^3}{[(-2) - 6 \times 5] \div (-4)^2}$$

Top:

$$8 \times 5 - 48 \div (-2)^3$$

$$8 \times 5 - 48 \div (-8)$$

$$40 + (+6)$$

$$46$$

Bottom:

$$[(-2) - 6 \times 5] \div (-4)^2$$

$$[(-2) - 30] \div (-4)^2$$

$$[-32] \div (-4)^2$$

$$[-32] \div (16)$$

$$= -2$$

$$\frac{\text{Top}}{\text{Bottom}} = \frac{46}{-2} = -23$$

On Test

$$\frac{4.5 - 2.3 \div (-0.5)}{(-5.4 + 3.5)^2 - 8.9}$$

Top:

$$4.5 - 2.3 \div (-0.5)$$

$$4.5 + (+4.6)$$

$$9.1$$

Bottom:

$$(-5.4 + 3.5)^2 - 8.9$$

$$(-1.9)^2 - 8.9$$

$$(3.61) - 8.9$$

$$-5.29$$

$$\frac{\text{Top}}{\text{Bottom}} = \frac{9.1}{-5.29}$$

$$= -1.72$$

3. The following formula is used to convert Fahrenheit to Celsius, where C represents celsius and the F is Fahrenheit.



$$C = \frac{F - 32}{1.8}$$

Use the formula to convert 18°F to Celsius.

ERASE to see answer

$$C = \frac{18 - 32}{1.8}$$

$$C = \frac{-14}{1.8}$$

$$C = -7.7$$

Class / Homework

Page 140 & 141

Write out the questions and show all work!
(Hint take your time and do one step at a time)

Questions

- 3,
- 4,
- 6
- 7 a,b d
- 8 a,b
- 10
- 11a, b
- 12 a,d
- 13 a,d



