

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:

"We are going to review adding and subtracting fractions and decimals."

Warm-Up .



Evaluate the following expressions:

$$\boxed{-\frac{4}{3} - \left(-\frac{7}{2}\right)} + \frac{6}{5}$$

$$-\frac{8}{6} + \left(\frac{+21}{6}\right) + \frac{6}{5}$$

$$\frac{13}{6} + \frac{6}{5}$$

$$\frac{65}{30} + \frac{36}{30}$$

$$= \frac{101}{30}$$

$$= 3 \frac{11}{30}$$

$$23.5 + (-12.61) - 3.2$$

$$10.89 - 3.2$$

$$= 7.69$$



Grade 9 Warm Up



1) Determine two rational numbers between each of the following

a) $-2.3, -2.34$

-2.30 -2.34

✓

-2.31

-2.32

-2.33

b) $-\frac{1}{2}, \frac{2}{3}$

$-\frac{3}{6}$ $\frac{4}{6}$

$-\frac{2}{6}, -\frac{1}{6}, \frac{0}{6}, \frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}$

2) Determine which number is greater (Show all work) Greater $>$, Less $<$, =Equal

a) $0.67 \square \frac{2}{3}$

$0.67 > 0.6\bar{6}$

↑
greater

b) $-\frac{4}{5} \square -\frac{2}{15}$

$-\frac{12}{15} < -\frac{2}{15}$ ← greater



Grade 9 Warm Up



3) Evaluate each of the following:

$$\begin{aligned} \text{a) } & -21.25 + 3.25 \\ & = -18 \end{aligned}$$

$$\begin{aligned} \text{b) } & -11.3 - (-2.4) \\ & = -8.9 \end{aligned}$$

$$\begin{aligned} \text{c) } & 7.35 + (-2.22) \\ & = 5.13 \end{aligned}$$

$$\begin{aligned} \text{d) } & -9.66 - (8.15) \\ & = -17.81 \end{aligned}$$



Grade 9 Warm Up



4) Evaluate each of the following:

$$\begin{aligned} \text{a) } & \frac{8}{3} + \frac{5}{4} \\ & \xrightarrow{\times 4} \frac{32}{12} + \frac{15}{12} \xrightarrow{\times 3} \\ & = \frac{47}{12} \end{aligned}$$

$$\begin{aligned} \text{b) } & -4\frac{2}{3} + \left(3\frac{1}{6}\right) \\ & -\frac{14}{3} + \frac{19}{6} \\ & -\frac{28}{6} + \frac{19}{6} \\ & -\frac{9}{6} \\ & = -1\frac{3}{6} \\ & = -1\frac{1}{2} \end{aligned}$$

$$\begin{aligned} \text{c) } & \frac{-1}{6} - \frac{2}{3} \bullet \\ & \frac{-1}{6} - \frac{4}{6} \\ & = -\frac{5}{6} \bullet \end{aligned}$$

$$\begin{aligned} \text{d) } & 2\frac{1}{7} - \left(-3\frac{2}{3}\right) \\ & \frac{15}{7} - \left(\frac{-11}{3}\right) \\ & \frac{45}{21} + \left(\frac{+77}{21}\right) \\ & = \frac{122}{21} \\ & = 5\frac{17}{21} \end{aligned}$$

Class/Homework

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Questions:

2, 3, 4ad, 5b(i, ii, iii), 6, 7,8, 9