Grade 9 Warm Up

Correct

1) Identify whether the number is rational or irrational

$\frac{3}{4}$	-3.286754....	$1.\overline{66}$	-0.33	1.85

2)Arrange the fractions from least to greatest: (Show work)

$\frac{15}{18}$ $\frac{-12}{17}$ $\frac{13}{15}$ $\frac{16}{15}$ $\frac{-4}{13}$ $\frac{-3}{11}$

3)Express decimal as a mixed fraction in simplest form.

a) 0.4 b) -3.2 d) -32.75 + 18.73

4) Determine each sum.

a) $\frac{-6}{5} + \frac{-2}{5}$

b) $\frac{-3}{4} + \frac{5}{6}$

c) $-3\frac{2}{7} + 2\frac{1}{4}$

d) -32.75 + 18.73

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Correct

1) Identify whether the number is rational or irrational

$\frac{3}{4}$	-3.286754....	$1.\overline{66}$	-0.33	1.85
Q	Q	Q	Q	Q

#4 #1 #5 #2 0.307

2)Arrange the fractions from least to greatest: (Show work)

$\frac{15}{18}$ $\frac{-12}{17}$ $\frac{13}{15}$ $\frac{16}{15}$ $\frac{-4}{13}$ $\frac{-3}{11}$

0.83 -0.706 #6 1.067 #3 $-0.\overline{27}$ $\times 100$

3)Express decimal as a mixed fraction in simplest form.

0.02×100

$\frac{2}{5}$ $\times 10$ 0.2

a) $\frac{0.4}{1 \times 10}$ b) -3.2 $-3\frac{1}{5}$

d) -32.75 + 18.73

-14.02

$-14\frac{1}{50}$

4) Determine each sum.

a) $\frac{-6}{5} + \frac{-2}{5}$ $\frac{-8}{5}$

$-1\frac{3}{5}$

b) $\frac{-3}{4} + \frac{5}{6}$ $10 = 1$

$-\frac{9}{12} + \frac{10}{12} = \frac{1}{12}$

c) $-3\frac{2}{7} + 2\frac{1}{4}$

$\times 4$

$-\frac{23}{7 \times 4} + \frac{9}{4 \times 7}$ $\times 7$

$-\frac{92}{28} + \frac{63}{28}$

$-\frac{29}{28} = -1\frac{1}{28}$

d) -32.75 + 18.73

-14.02

Class/Homework

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#6, 7ace, 8

9 d,e, f

11

13 c, d

14a,c

15 ab

Worksheet

6. Which of the following expressions have the same answer as $-\frac{3}{10} - \frac{9}{5}$? How do you know?

$\times 2$ $\times 2$

$-\frac{3}{10} - \frac{18}{10} = -\frac{21}{10}$

a) $-\frac{3}{10} - \left(-\frac{9}{5}\right)$

b) $\frac{3}{10} - \frac{9}{5}$

$-\frac{21}{10}$

$-\frac{18}{10} \div \frac{3}{10}$

c) $-\frac{9}{5} - \frac{3}{10}$

d) $\frac{9}{5} - \frac{3}{10}$

7. Use integers to estimate each difference. Then, determine each difference.

a) $10.8 - 3.5$

7.3

b) $-37.23 - 48.54$

e) $-28.31 - 9.72$

-38.03

f) $70.59 - (-81.25)$

c) $50.06 - (-14.67)$

64.73

d) $64.19 - 95.76$

8. On January 25th, 2008, the lowest temperature in Iqaluit, Nunavut, was −28.5°C.
On the same day, the lowest temperature in Inuvik, Northwest Territories, was −33.1°C.

a) What is the difference in these temperatures?

+/- 4.6

b) Why are there two possible answers to part a?

9.

d) $-\frac{19}{6} - \frac{7}{8}$

e) $\frac{15}{4} - \frac{5}{12}$

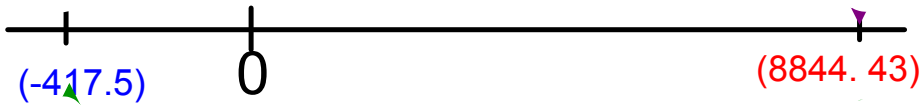
f) $-2\frac{1}{8} - \left(-4\frac{1}{3}\right)$

11. In Asia, the lowest point on land is the shore of the Dead Sea, which is 417.5 m below sea level. The highest point is the peak of Mount Everest, which 8844.43 m above sea level.

a) Write each measurement above as a rational number.

-417.5 m, 8844.43 m

b) Write a subtraction statement that represents the distance between the highest point and the lowest point. What is this distance?



(-417.5) − (8844. 43)

(8844. 43) − (-417.5)

9261.93

13)

c) $-\frac{16}{5} - \left(-\frac{14}{3}\right) + \frac{13}{4}$

$\frac{-192}{60} - \left(\frac{-280}{60}\right) + \frac{195}{60}$

$\frac{283}{60}$

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

7.69

14. Determine a rational number that makes each statement true.
Use a calculator to check your answer.

a) $-1.2 - \square \leq 3.7$

c) $\square - 2.9 \geq 5.3$

≤ 3.7 8.2

$-1.2 - 5$

$-6.2 \leq 3.7$

15. Determine the missing number in each subtraction statement.

a) $\square - 28.4 = 37.3$

65.7

b) $\frac{9}{10} - \square = \frac{3}{5}$