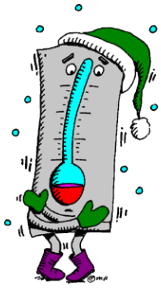
Curriculum Outcome

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

Student Friendly:
"Adding Fractions and Adding Decimals"



Warm Up

Grade 9

Determine the sum of each of the following

1) $\frac{-3}{7}+\left(\frac{-3}{7}\right)=$ $\frac{-6}{7}$

2) a) 2.7 + 1.8 = 4.5

b) -3.7 + 4.5 = 0.8

c) 2.7 + (-8.7) = −6

$$\frac{3}{5} + \frac{4}{-5}$$

$$\frac{3}{5} + \frac{-4}{5}$$

Find a Common Denominator by determining the LCM.

L owest

C ommon

M ultiple

$\frac{1}{6} + \frac{3}{8}$

$\times 4$ $\quad$ $\times 3$

$\frac{4}{24} + \frac{9}{24}$

$\frac{13}{24}$

LCM

$\frac{1}{6} + \frac{3}{8}$

$\times 8$ $\quad$ $\times 6$

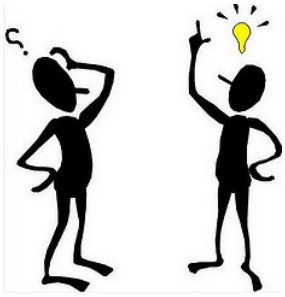
$\frac{8}{48} + \frac{18}{48}$

$\frac{26}{48}$

$= \frac{13}{24}$

What about mixed numbers?

Option 1



$2\frac{1}{3} + 2\frac{3}{5}$

Step 1: Write each mixed number as an improper fraction.

$\frac{7}{3} + \frac{13}{5}$

Step 2: Find a common denominator, and then add numerators.

$\frac{35}{15} + \frac{39}{15}$

$\frac{74}{15}$

$= 4\frac{14}{15}$

$= 4\frac{14}{15}$

What about mixed numbers?

$2\frac{1}{3} + 2\frac{3}{5}$

Option 2

Step 1: Add Integers together .

$2 + 2 = 4$

Step 2: Add Fractional parts together (must have common denominators).

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

$\times 5$ $\times 3$

$\frac{5}{15} + \frac{9}{15}$

$\frac{14}{15}$

$4\frac{14}{15}$

Practice!

1) $5\frac{7}{8} + (-3\frac{1}{2})$

$\frac{47}{8} + \frac{-7}{2}$) x4

$\frac{47}{8} + \frac{-28}{8}$

$\frac{19}{8}$

$= 2\frac{3}{8}$

1) $5\frac{7}{8} + (-3\frac{1}{2})$

$5 + (-3) = 2$

$\frac{7}{8} + (\frac{-1}{2})$ x4

$\frac{7}{8} + \frac{-4}{8}$

$\frac{3}{8}$

$2\ 3/8$

Classwork / Homework:

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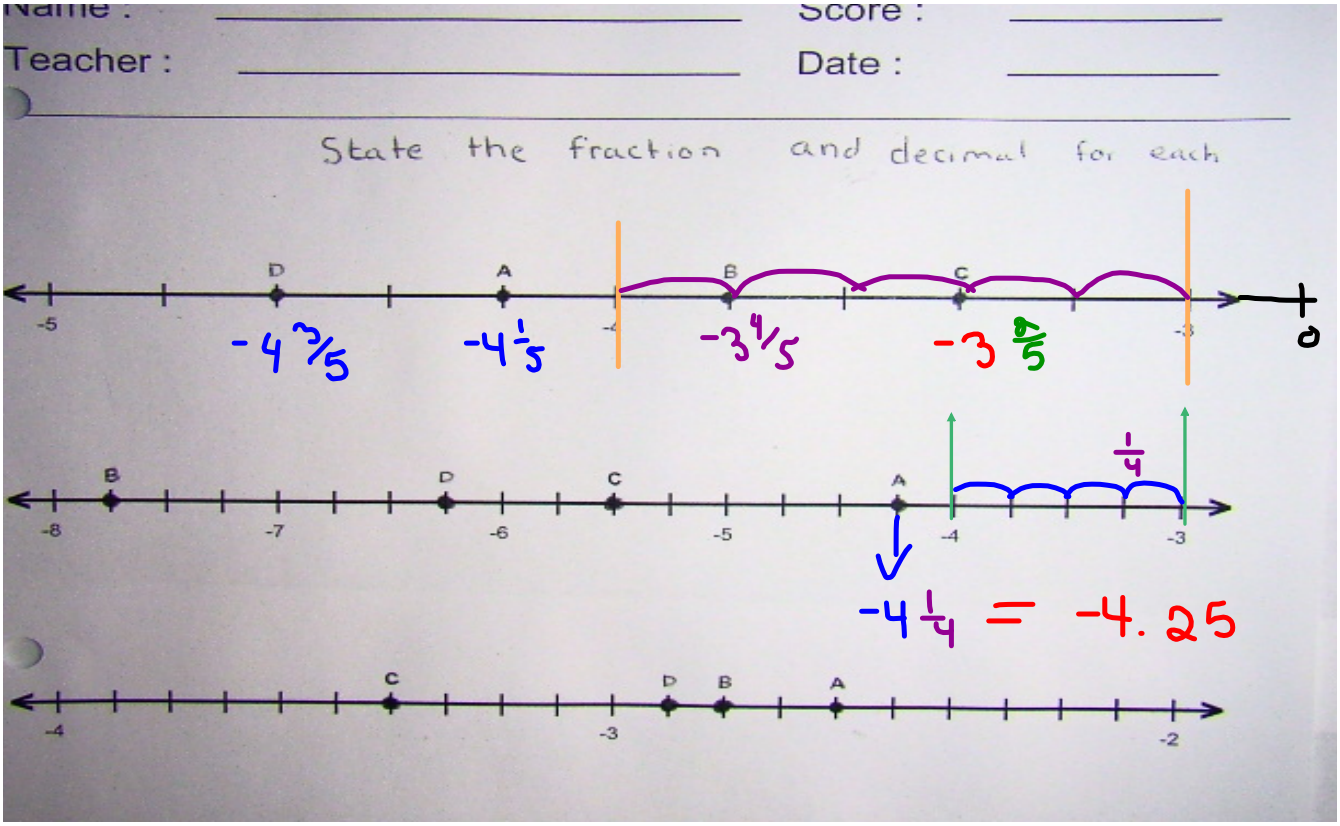
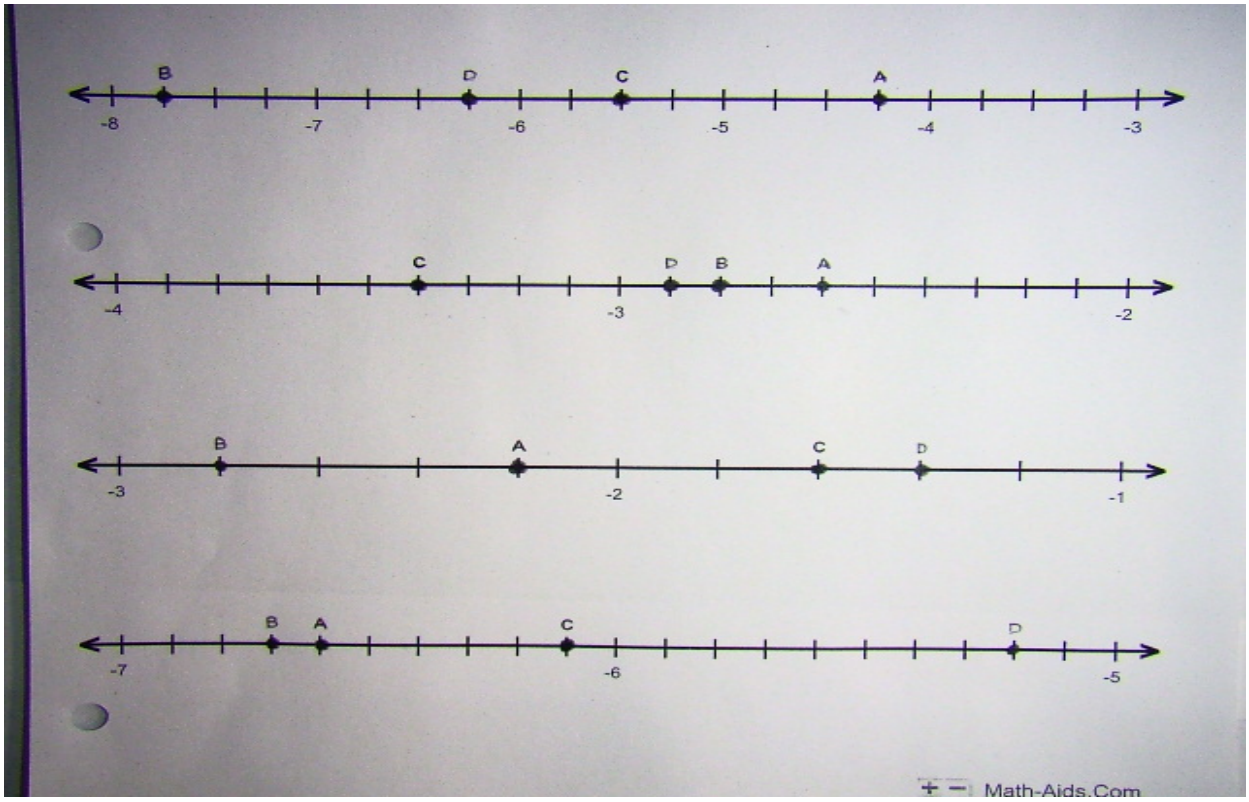
11(acegi) (MUST USE COMMON DENOMINATOR)

13, 16, 17(a, b, c), 18, 20(ac)


Name :
Score :
Teacher :
Date :
State the fraction and decimal for each
D
A
B
C
-5
-4
-3
0
$-4\frac{3}{5}$
$-4\frac{1}{5}$
$-3\frac{4}{5}$
$-3\frac{5}{5}$
B
D
C
A
-8
-7
-6
-5
-4
-3
$\frac{1}{4}$
$-4\frac{1}{4} = -4.25$
C
D
B
A
-4
-3
-2


B
D
C
A
-8
-7
-6
-5
-4
-3
C
D
B
A
-4
-3
-2
B
A
C
D
-3
-2
-1
B
A
C
D
-7
-6
-5
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Classwork / Homework:

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Must show work when you see fractions

11(b,d,f,h,j) (Without calculator)

13, 16, 17(a, b, c), 18, 19(a, c), 20(ac)