

Warm Up

Grade 7

Determine the sum of each of the following

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

2) a) $2.7 + 1.8$

b) $-3.7 + 4.5$

c) $2.7 + (-8.7)$

Class/Homework

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Don't just give answers copy down the addition statement (Not directions)



- 5 (bc) Use Calculators no # line needed
- 6 (all) Use Calculators no # line needed
- 7 (ac) Leave in fractional form (no calculator)
- 8 (all) Leave in fractional form (no calculator)
- 9 (acf) Use Calculators

Copy Down

Adding Fractions

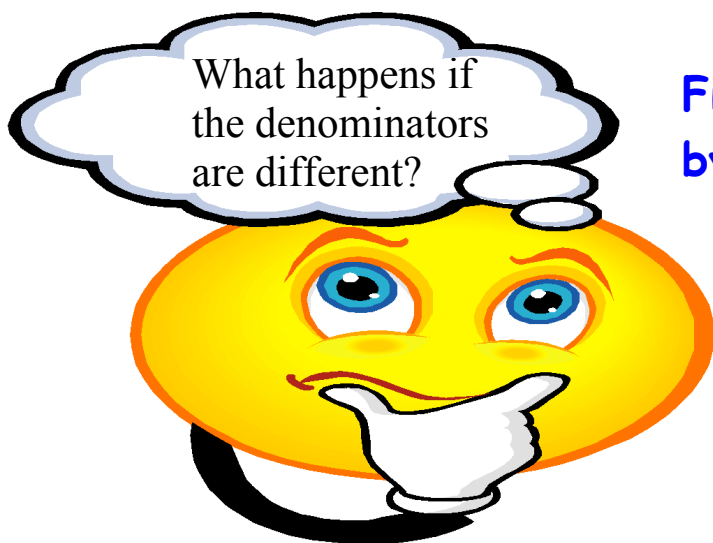
When adding fractions you need a COMMON DENOMINATOR:

$$1) \frac{-5}{8} + \frac{6}{8}$$

$$=$$

$$2) \frac{-8}{7} + \frac{-4}{7}$$

$$=$$



Find a
by determining the LCM.

L

C

M

Find a common denominator:

$$\begin{array}{r}
 \frac{4 \times 3}{5 \times 3} + \frac{8 \times 5}{3 \times 5} \\
 = \frac{12}{15} + \frac{40}{15}
 \end{array}$$

Multiples

5

3

$5 \times 1 = 5$

$3 \times 1 = 3$

$5 \times 2 = 10$

$3 \times 2 = 6$

$5 \times 3 = 15$

$3 \times 3 = 9$

$5 \times 4 = 20$

$3 \times 4 = 12$

$\begin{array}{l}
 \text{LCM} \rightarrow 3 \times 5 = 15
 \end{array}$

$$\frac{52}{15} \rightarrow 3 \frac{7}{15}$$

$$\frac{3 \times 3}{4 \times 3} + \frac{-5 \times 2}{6 \times 2}$$

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

Find the LCM first!



Multiples of 4 and 6:

4	4, 8, 12, 16
6	6, 12, 18

$$= \frac{-1}{12}$$

What about mixed numbers?

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

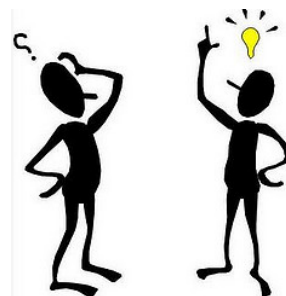
Step 1: Write each mixed number as an improper fraction.

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

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

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

$$\frac{74}{15} = 4\frac{14}{15}$$



$$2\frac{1}{3} \xrightarrow{\times 5} 2\frac{5}{15} + 2\frac{3}{5} \xrightarrow{\times 3} 2\frac{9}{15}$$

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

Practice!

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

$$\begin{array}{r} \frac{7}{8} \frac{4}{8} \\ \frac{7}{8} \frac{4}{8} \\ 5\frac{7}{8} + -3\frac{4}{8} \\ 2\frac{3}{8} \end{array}$$

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

$$\begin{array}{r} -1\frac{2}{3} + -2\frac{1}{4} \\ = -3\frac{1}{2} \end{array}$$



Classwork / Homework:

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8 (all) Leave in fractional form (no calculator)
9 (acf) Use Calculators

11(acegi) (Without calculator)

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