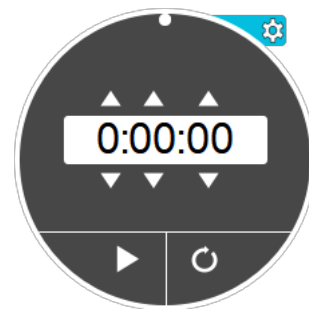


Warm-Up Quiz

*You will have 12 minutes to complete the quiz.

*Read the instructions carefully.

*Read quietly when finished.



3.2 Adding Rational Numbers

Sept. 12/18

Add the following...

a. $3+7 = 10$

b. $-3+7 = 4$

c. $-3 + (-7) = -10$

d. $3 + (-7) = -4$

Remember to ~~add~~ fractions
[rational numbers]

you need COMMON DENOMINATORS!

$$\begin{array}{c} 5 \\ \times \\ \hline 2 \\ \hline 3 \end{array} + \frac{1 \times 3}{5 \times 3}$$

$$\frac{10}{15} + \frac{3}{15}$$

$$\frac{13}{15}$$

Remember **L**owest
Common **M**ultiple

LCM = "count by"
3, 6, 9, 12, (15)
5, 10, (5)

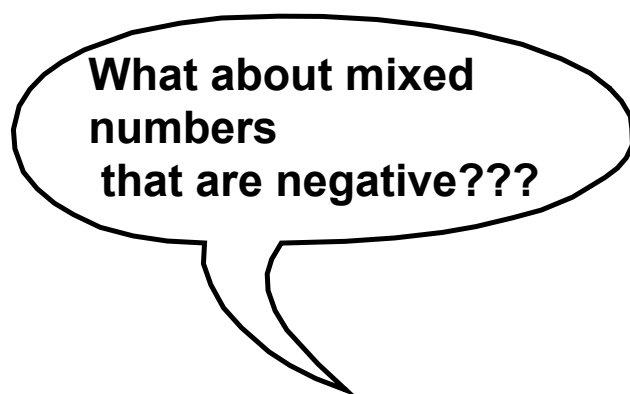
B. $\frac{2}{3} + \frac{1}{-5}$

$$\begin{aligned} & \overset{\times 5}{\times 5} \frac{2}{3} + \overset{\times 3}{\times 3} \frac{-1}{5} \\ & \frac{10}{15} + \frac{-3}{15} \\ & \frac{7}{15} \end{aligned}$$



C. $\frac{-5}{8} + \frac{7}{-2}$

$$\begin{aligned} & -\frac{5}{8} + \frac{-7 \times 4}{2 \times 4} \\ & -\frac{5}{8} + \frac{-28}{8} \\ & \frac{-33}{8} = -4\frac{1}{8} \end{aligned}$$



Change each of the following into mixed numbers: **Be careful when there is a negative!!!!!!!**

$$a) \frac{23}{7} = 3\frac{2}{7}$$

$$b) \frac{12}{9} = 1\frac{3}{9} = 1\frac{1}{3}$$

$$c) -\frac{23}{7} = -3\frac{2}{7}$$

$$d) \frac{\cancel{62}}{\cancel{-8}} = \frac{-62}{8} = -7\frac{6}{8} = -7\frac{3}{4}$$

Mixed number \rightarrow improper fraction

$$a) 2\frac{3}{4} = \frac{11}{4}$$

$$b) 4\frac{1}{3} = \frac{13}{3}$$

$$c) -2\frac{3}{4} = -\frac{11}{4}$$

$$d) -3\frac{2}{3} = -\frac{11}{3}$$

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

$$\overset{\times 3}{\times 3} \frac{3}{2} + \overset{-7 \times 2}{-7 \times 2} \frac{3}{3 \times 2}$$

Try These Ones

LCM = 6

$$\frac{9}{6} + \frac{-14}{6}$$

$$\frac{-5}{6}$$

$$-2\frac{1}{3} + \frac{4}{-6} + 6\frac{1}{4}$$
$$\begin{array}{c} \times 4 \\ \times 4 \end{array} \frac{7}{3} + \begin{array}{c} \times 2 \\ \times 2 \end{array} \frac{-4}{6} + \frac{25 \times 3}{4 \times 3}$$

LCM=12

$$\frac{-28}{12} + \frac{-8}{12} + \frac{75}{12}$$

$$\frac{39}{12} = 3\frac{3}{12} \quad \text{3}\frac{1}{4}$$

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#11[all]

#14 [c,d],

Answers

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Lowest Terms, Mixed #**When necessary!**

11. a) $\frac{1}{6}$ e) $-4\frac{1}{12}$
 b) $\frac{2}{15}$ f) $-\frac{1}{30}$
 c) $-3\frac{17}{20}$ g) $\frac{7}{8}$
 d) $7\frac{1}{10}$ h) $-3\frac{5}{6}$

14. c) $\frac{16}{15} = 1\frac{1}{15}$ d) $11\frac{1}{20}$

