

Warm-Up

September 16, 2016

1. Change the following into an improper fraction  $-3\frac{1}{2}$

A.  $\frac{7}{2}$

B.  $\frac{-7}{2}$

C.  $\frac{-5}{2}$

D.  $\frac{5}{2}$

2. Write the following as a mixed number.  $\frac{-23}{3}$

A.  $-7\frac{2}{3}$

B.  $7\frac{2}{3}$

C.  $-6\frac{1}{3}$

D.  $-7\frac{1}{3}$

3. Add the following and give the answer in lowest terms if necessary.

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

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

B.  $-3\frac{8}{15}$

C.  $-3\frac{2}{15}$

D.  $3\frac{8}{15}$

## Section 3.3 Subtracting Rational Numbers

Subtract the following:

$$-8 - (-3)$$

$$-8 + 3$$

$$-5$$

$$\frac{-8}{10} - \frac{-3 \times 2}{5 \times 2}$$

$$\frac{-8}{10} - \frac{-6}{10}$$

$$\frac{-2}{10}$$
$$\frac{-1}{5}$$

Lowest terms

Express all answers in lowest terms: **Mixed # if needed.**

A)

$$-\frac{3}{6} - \frac{7}{-3}$$

$$\frac{-3}{6} - \frac{-7x^2}{3x^2}$$

$$\frac{-3}{6} - \frac{-14}{6}$$

$$\frac{11}{6}$$

$$\frac{15}{6}$$

$$\begin{aligned} & -5\frac{3}{4} - (-2\frac{1}{2}) \\ & \frac{-23}{4} - \frac{-5}{2} \\ & \frac{-23}{4} - \frac{-10}{4} \\ & \frac{-13}{4} \\ & -3\frac{1}{4} \end{aligned}$$

$$\begin{array}{r}
 \overset{+}{\curvearrowright} \\
 -3\frac{3}{4} - 2\frac{1}{3} \\
 \underset{\times}{\curvearrowleft} \qquad \qquad \underset{\times}{\curvearrowleft} \\
 \overset{\times 3}{-15} \qquad \overset{\times 4}{7} \\
 \underset{\times 3}{4} \qquad \underset{\times 4}{3} \\
 \hline
 -\frac{45}{12} - \frac{28}{12} \\
 \hline
 -\frac{73}{12} \\
 -6\frac{1}{12}
 \end{array}$$

# Worksheet even on both sides

$$\frac{3}{8} + \left(-\frac{4}{5}\right) \quad \left(\frac{-17}{40}\right)$$

Pre-Algebra

Assignment Date \_\_\_\_\_

Find each sum.

1) $(-2) + (-1\frac{4}{5})$ $(-3\frac{4}{5})$	2) $\frac{3}{8} + (-\frac{4}{5})$ $(-\frac{17}{40})$
3) $(-\frac{1}{4}) + \frac{9}{5}$ $(1\frac{11}{20})$	4) $\frac{1}{2} + (-\frac{13}{7})$ $(-1\frac{5}{14})$
5) $(-\frac{3}{2}) + (-\frac{5}{4})$ $(-2\frac{3}{4})$	6) $\frac{1}{5} + (-3\frac{6}{7})$ $(-3\frac{23}{35})$
7) $(-\frac{4}{3}) + \frac{15}{8}$ $(\frac{13}{24})$	8) $(-\frac{2}{5}) + (-3\frac{4}{7})$ $(-3\frac{34}{35})$
9) $(-\frac{2}{5}) + 1\frac{2}{7}$ $(\frac{31}{35})$	10) $(-\frac{5}{4}) + (-3\frac{3}{4})$ $(-5)$

Pre-Algebra Name \_\_\_\_\_  
 Assignment Date \_\_\_\_\_ Period \_\_\_\_\_  
 Find each difference.

1) $1 - \left(-\frac{1}{3}\right)$	2) $\frac{1}{2} - \frac{1}{2}$
3) $3\frac{1}{4} - \left(-2\frac{4}{5}\right)$	4) $(-6) - \left(-\frac{7}{8}\right)$
5) $\frac{1}{3} - \left(-\frac{1}{2}\right)$	6) $\left(-2\frac{2}{3}\right) - \frac{3}{5}$
7) $\left(-3\frac{1}{3}\right) - \left(-5\frac{2}{3}\right)$	8) $(-4) - \frac{5}{4}$
9) $\frac{3}{2} - 4\frac{1}{6}$	10) $\frac{7}{8} - \frac{1}{3}$

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Answers: 1.  $1\frac{1}{3}$  2. 0 3.  $6\frac{1}{20}$  4.  $-5\frac{1}{8}$  5.  $\frac{5}{6}$  6.  $-3\frac{1}{15}$   
 7.  $2\frac{1}{3}$  8.  $-5\frac{1}{4}$  9.  $-2\frac{2}{3}$  10.  $1\frac{1}{24}$