

Math 6 - Unit 8: Operations w/ Rational Numbers

Addition and Subtraction of Rational Numbers

Name: KEY (SIDE #1)

Class Period: 1 2 3 4 Date: _____

Find each sum or difference. Pay close attention to the operation and be sure to write an addition problem for each subtraction problem before you find the sum.

1) $(-12) + 7$

$$\boxed{-5}$$

11) $(-10) + (-7)$

$$-1 + (-10) = \boxed{-11}$$

21) $(-10) - 47$

$$-10 + -47 = \boxed{-57}$$

2) $2 - (-2)$

12) $(-1) - 10$

22) $(-29) - 29$

3) $(-6) + 12$

$$\boxed{6}$$

13) $8 + 7$

23) $13 + (-29)$

$$\boxed{-16}$$

4) $8 - 7$

14) $(-8) - (-6)$

$$-8 + 6 = \boxed{-2}$$

24) $38 + 22$

5) $3 + 4$

$$\boxed{7}$$

15) $(-45) + 9$

25) $(-32) - 44$

$$-32 + (-44) = \boxed{-76}$$

6) $11 - 4$

16) $48 - (-31)$

$$48 + 31 = \boxed{79}$$

26) $(-12) + (-11)$

7) $(-1) + (-46)$

$$\boxed{-47}$$

17) $(-30) + 10$

27) $2 + 15 + 4$

$$\boxed{21}$$

8) $18 - 41$

18) $(-38) - 30$

$$-38 + -30 = \boxed{-68}$$

28) $16 + (-13) + 5$

9) $(-34) + 50$

$$\boxed{16}$$

19) $38 + (-5)$

29) $2 - (-9) - 8$

$$2 + 9 - 8 = \boxed{3}$$

10) $(-1) - (-3)$

20) $(-1) - (-40)$

$$-1 + 40 = \boxed{39}$$

30) $10 + 3 - (-8)$

Math 6 - Unit 8: Operations w/ Rational Numbers
 Addition and Subtraction of Rational Numbers (Fractions)

Name: KEY (SIDE #2)

Class Period: 1 2 3 4 Date: _____

1) $\frac{3}{8} + \frac{3}{8} = \frac{6}{8} = \boxed{\frac{3}{4}}$

13) $-\frac{4}{9} - \frac{1}{9} = -\frac{4}{9} + -\frac{1}{9} = \boxed{-\frac{5}{9}}$

2) $\frac{7}{10} - \frac{5}{10}$

14) $\frac{2}{3} + \frac{1}{3}$

3) $\frac{9}{10} + \frac{3}{10} = \frac{12}{10} = \boxed{\frac{6}{5}} = \boxed{1\frac{1}{5}}$
 EITHER

15) $-\frac{3}{4} - \frac{2}{4} = -\frac{3}{4} + -\frac{2}{4} = \boxed{-\frac{5}{4}} = \boxed{-1\frac{1}{4}}$
 EITHER

4) $\frac{7}{16} + \frac{3}{8}$

16) $-\frac{5}{6} + \frac{1}{4}$

5) $\frac{19}{20} - \frac{3}{10} \begin{matrix} (2) \\ (2) \end{matrix} = \frac{19}{20} + -\frac{6}{20} = \boxed{\frac{13}{20}}$

17) $\begin{matrix} (4) \\ (4) \end{matrix} \frac{2}{3} - \begin{matrix} (3) \\ (3) \end{matrix} \frac{3}{4} \begin{matrix} (3) \\ (3) \end{matrix} = \frac{-8}{12} + -\frac{9}{12} = \boxed{-\frac{17}{12}} = \boxed{-1\frac{5}{12}}$
 EITHER

6) $\frac{4}{9} - \frac{1}{12}$

18) $\frac{7}{8} + \frac{1}{12}$

7) $\frac{8}{15} - \frac{1}{15} = \boxed{\frac{7}{15}}$

19) $\frac{7}{9} + \frac{2}{9} = \frac{9}{9} = \boxed{1}$

8) $\frac{5}{12} + \frac{5}{12}$

20) $\frac{3}{5} + \frac{4}{5}$

9) $\frac{7}{10} - \frac{3}{10} = \frac{4}{10} = \boxed{\frac{2}{5}}$

21) $-\frac{11}{12} - \frac{5}{12} = -\frac{11}{12} + -\frac{5}{12} = -\frac{16}{12} = \boxed{-\frac{4}{3}} = \boxed{-1\frac{1}{3}}$
 EITHER

10) $\frac{8}{9} - \frac{5}{6}$

22) $\frac{5}{6} + \frac{4}{6}$

11) $\begin{matrix} (5) \\ (5) \end{matrix} \frac{5}{12} - \begin{matrix} (6) \\ (6) \end{matrix} \frac{3}{10} \begin{matrix} (6) \\ (6) \end{matrix} = \frac{25}{60} + -\frac{9}{60} = \boxed{\frac{16}{60}} = \boxed{\frac{4}{15}}$

23) $\frac{3}{8} + \frac{5}{8} = \frac{8}{8} = \boxed{1}$

12) $\frac{7}{9} + \frac{2}{3}$

24) $-\frac{7}{16} - (-\frac{3}{16})$