Name Answers Date

Unit 1 – Review

Complete the statement using <, >, or =.

1) $6 \_\_ |-2|$

6 > 2

2) $|-2| \_\_ 2$

2 = 2

Order the values from least to greatest.

3) $4, |7|, -1, |-3|, -4$

4 7 -1 3 -4

$-4, -1, |-3|, 4, |7|$

4) $|2|, -3, |-5|, -1, 6$

2 -3 5 -1 6

$-3, -1, |2|, |-5|, 6$

5) You download 12 new songs to your MP3 player. Then you delete 5 old songs. Write each amount as an integer.

New Songs = 12

Old Songs = -5

Add.

6) $-9 + 2 = -7$

7) $5 + (-5) = 0$

8) $-12 + (-6) = -18$

9) $-10 + 19 + 5$

$9 + 5 = 13$

10) $-11 + (-20) + 9$

$-31 + 9 = -22$

11) $-7 + 7 + (-8)$

$0 + (-8) = -8$

Subtract.

12) $3 - 8 = -5$

13) $6 - (+7) = 13$

14) $-5 - (+4) = -1$

15) $11 - (-2) + 14$

$13 + 14 = 27$

16) $-16 - (+12) + (-8)$

$-4 + (-8) = -12$

17) $6 - 17 - 4$

$-11 + -4 = -15$

18) You begin a hike in Death Valley, California, at an elevation of –86 meters. You hike to a point of elevation at 45 meters. What is your change in elevation?

45 ——

0 ——

-86 ——

45 + 186 = 131 meters

Multiply.

19) $7(-7)$ = -49

20) $-5(-6)$ = 30

21) $-10(-3)(-7)$

30(-7) = -210

22) $-4 \bullet 8 \bullet 3$

-32 · 3 = -96

23) -11^2

-11 · 11

= -121

24) $(-2)^3 \bullet (-6)$

-8 · -6 = 48

Divide.

25) $-21 \div (-7)$ = 3

26) $\frac{-13}{-13}$ = 1

27) $\frac{-55}{11}$ = -5

28) $-63 \div (-7) + 6$

9 + 6 = 15

29) $-5 - 12 \div 3$

-5 - 4 = -9

30) $-8 \bullet 7 + 33 \div (-11)$

-56 + -3

= -59

31) The table shows the number of yards a football player runs in each quarter of a game. Find the mean number of yards the player runs per quarter.

Quarter	1	2	3	4
Yards	–2	14	–18	–6

$\frac{-2 + 14 + -18 + -6}{4} = \frac{-12}{4}$

= -3

-3 yards

Write the rational number as a decimal.

32) $-\frac{9}{10}$

$= -.9$

$10\overline{)9.0}$ -90 0

33) $-4\frac{2}{3}$

$= -4.\overline{6}$

$3\overline{)2.00}$ -18 20 -18 2 ...

Write the decimal as a fraction or mixed number in simplest form.

34) -0.84 $= \frac{-84}{100}$

$= -\frac{21}{25}$

35) 5.125

$\frac{125}{1000} = \frac{1}{8}$

$= 5\frac{1}{8}$

Order the numbers from least to greatest.

36) $-1.6, \frac{5}{2}, -\frac{7}{8}, 0.9, -\frac{6}{5}$

$-1.6, 2.5, -.875, 0.9, -1.2$

$-1.6, -\frac{6}{5}, -\frac{7}{8}, 0.9, \frac{5}{2}$

Add. Write fractions in simplest form.

36) $-\frac{1}{6} + \left(-\frac{5}{12}\right)$

$\frac{1}{6} = \frac{2}{12}$

$+ \frac{5}{12} = \frac{5}{12}$

$-\frac{7}{12}$

37) $-5\frac{3}{4} + \left(-4\frac{5}{6}\right)$

$5\frac{3}{4} = \frac{9}{12}$

$+ 4\frac{5}{6} = \frac{10}{12}$

$9\frac{19}{12} = 10\frac{7}{12}$

$-10\frac{7}{12}$

38) $0.46 + (-0.642)$ $= -0.182$

$$\begin{array}{r} 0.^{5}\cancel{6}^{1}42 \\ -0.46 \\ \hline 0.182 \end{array}$$

39) $-2.57 + (-3.48)$ $= -6.05$

$$\begin{array}{r} {}^{1}\cancel{2}.^{1}57 \\ +\ 3.48 \\ \hline 6.05 \end{array}$$

Subtract. Write fractions in simplest form.

40) $\frac{4}{9} + \left(+\frac{2}{9}\right)$

$$\begin{array}{r} \frac{4}{9} \\ +\ \frac{2}{9} \\ \hline \frac{6}{9} = \frac{2}{3} \end{array}$$

41) $-2\frac{3}{7} + -1\frac{2}{3}$

$2\frac{3}{7} = \frac{9}{21}$

$+\ 1\frac{2}{3} = \frac{14}{21}$

$3\frac{23}{21} = 4\frac{2}{21}$

$-4\frac{2}{21}$

Evaluate.

42) $2\frac{1}{2} + \left(-\frac{7}{6}\right) - 1\frac{3}{4}$

$2\frac{1}{2} = \frac{5}{6}$

$-1\frac{1}{6} = \frac{1}{6}$

$1\frac{2}{6}$

$= 1\frac{1}{3} = 1\frac{3}{4}$

$1\frac{3}{4} = \frac{9}{12}$

$-1\frac{1}{3} = \frac{4}{12}$

$= \frac{5}{12}$

43) $2.37 + (+1.55) - 2.48$

$$\begin{array}{r} {}^{1}2.37 \\ +1.55 \\ \hline 3.92 \end{array} \quad -2.48$$

$$\begin{array}{r} 3.^{8}\cancel{9}^{1}2 \\ -2.48 \\ \hline 1.44 \end{array}$$

Find the distance between the two numbers on a number line.

44) $-3\frac{1}{4}, -6\frac{1}{2}$

subtract

$6\frac{1}{2} = \frac{13}{4}$

$-3\frac{1}{4} = \frac{1}{4}$

$3\frac{1}{4}$

45) Your friend drinks $\frac{2}{3}$ of a bottle of water. You drink $\frac{5}{7}$ of a bottle of water. Find the difference of the amounts of water left in each bottle.

$\frac{5}{7} = \frac{15}{21}$

$-\frac{2}{3} = \frac{14}{21}$

$\frac{1}{21}$ of a bottle

Multiply or divide. Write fractions in simplest form.

46) $-\frac{8}{9}\left(-\frac{18}{25}\right) = \frac{-8}{9} \cdot \frac{-18^{2}}{25}$

$= \frac{16}{25}$

47) $-3\frac{3}{7} \times 2\frac{1}{2} = \frac{-24}{7} \times \frac{5}{2} = \frac{-60}{7}$

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

48) $-\frac{2}{3} \div \frac{5}{9} = \frac{-2}{3} \times \frac{9^{3}}{5}$

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

$= -1\frac{1}{5}$

49) $-5\frac{5}{8} \div \left(-4\frac{7}{12}\right) = \frac{-45}{8} \div \frac{-55}{12}$

$= \frac{-45}{8} \times \frac{-12}{55}$

$= \frac{27}{22} = 1\frac{5}{22}$

50) $-1.39 \times (-6.8)$ =

9.452

51) $-10 \div 0.22$

$0.22\overline{)1000}$ $45.45\ldots$

-88

120

-110

100

-45.45