

Name: SAMPLE

Date: _____

7th Grade RED CHAPTER 2 Practice 1

Write the rational number as a decimal. (2pt each)

1) $-\frac{4}{5}$

$$\begin{array}{r} 0.8 \\ 5 \overline{)40} \\ \underline{40} \\ 0 \end{array}$$

$$\boxed{-0.8}$$

Answers

1) -0.8

2) $3\frac{4}{9}$

$$\begin{array}{r} 0.4 \\ 9 \overline{)400} \\ \underline{-36} \downarrow \\ 40 \end{array}$$

$$\boxed{3.\overline{4}}$$

2) 3. $\overline{4}$

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

3) 2.125

$$\frac{125}{1000}$$

$$\begin{array}{r} 5 \overline{)125} \quad 1000 \\ \underline{5} \quad 25 \quad 200 \\ \underline{5} \quad 5 \quad 40 \\ 1 \quad 8 = \frac{1}{8} \end{array}$$

$$\boxed{2\frac{1}{8}}$$

3) 2 $\frac{1}{8}$

4) -0.95

$$\frac{95}{100}$$

$$\begin{array}{r} 5 \overline{)95} \quad 100 \\ \underline{5} \quad 19 \quad 20 = \frac{19}{20} \end{array}$$

$$\boxed{-\frac{19}{20}}$$

4) $-\frac{19}{20}$

Complete the statement using <, >, or =. (1pt each)

5) $\frac{16}{11}$ \blacksquare $1.\overline{45}$

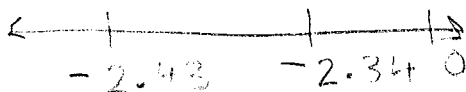
$$\begin{array}{r} 1.45 \\ 11 \overline{)160} \\ \underline{11} \downarrow \\ 50 \\ \underline{44} \\ 60 \end{array}$$

$$\begin{array}{r} 1.45 \\ \underline{-1.45} \\ 0 \end{array}$$

$$1.\overline{45} = 1.\overline{45}$$

5) =

6) -2.34 \blacksquare -2.43



$$-2.34 > -2.43$$

6) >

7) You spend $3\frac{2}{3}$ hours hiking and an additional $\frac{3}{4}$ hour to rest. How much time did you spend in total?

7) $4\frac{5}{12}$ hr

$$3\frac{2 \times 4}{3 \times 4} + \frac{3 \times 3}{4 \times 3}$$

$$3 + 1\frac{5}{12}$$

$$3\frac{8}{12} + \frac{9}{12} \left. \vphantom{3\frac{8}{12}} \right\} \frac{17}{12} \text{ or } 1\frac{5}{12}$$

$$\boxed{4\frac{5}{12} \text{ hours}}$$

Add or subtract. Write fractions in simplest form.

8) $15.36 + -12.095$

8) 3.265

$$\begin{array}{r} 15.360 \\ - 12.095 \\ \hline 3.265 \end{array}$$

9) $-3\frac{7}{9} + -2\frac{1}{3}$

$$3\frac{7}{9} + 2\frac{1 \times 3}{3 \times 3} = 3\frac{7}{9} + 2\frac{3}{9}$$

$$\frac{10}{9} \text{ or } 1\frac{1}{9}$$

$$3 + 2 + 1\frac{1}{9} = 6\frac{1}{9}$$

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

$$\boxed{-6\frac{1}{9}}$$

10) $\frac{13}{4} - -4\frac{9}{10}$

$$\frac{13}{4} + 4\frac{9}{10}$$

$$3\frac{1 \times 5}{4 \times 5} + 4\frac{9 \times 2}{10 \times 2}$$

$$3\frac{5}{20} + 4\frac{18}{20} = \frac{23}{20} \text{ or } 1\frac{3}{20}$$

$$3 + 4 + 1\frac{3}{20} = 8\frac{3}{20}$$

10) $8\frac{3}{20}$

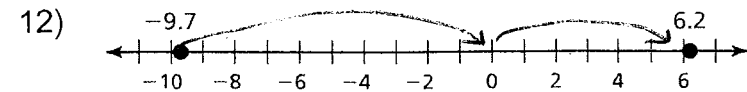
11) $-7.91 - -5.28$

$$-7.91 + 5.28$$

$$\begin{array}{r} 7.91 \\ - 5.28 \\ \hline -2.63 \end{array}$$

-2.63

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

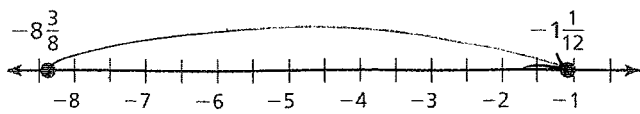


$$9.7 + 6.2 = 15.9$$

12) 15.9

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

13)



$$\begin{array}{r} 8 \frac{3}{8} \times 3 \\ - 1 \frac{1}{12} \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 7 \frac{7}{24} \\ 8 \frac{9}{24} \\ - 1 \frac{2}{24} \\ \hline 7 \frac{7}{24} \end{array}$$

14) The table shows the changes in rainfall (in inches) from the monthly average of four months. What is the mean change?

Month	May	June	July	Aug.
Change (in.)	1.05	-0.58	-2.12	-2.67

$$\begin{array}{r} 1.05 \\ + - 0.58 \\ + - 2.12 \\ + - 2.67 \\ \hline -4.32 \end{array}$$

$$\begin{array}{r} -1.08 \\ 4 \overline{) -4.32} \\ \underline{-4} \\ 032 \end{array}$$

14) -1.08 in.

15) You buy a bag of dog food for \$12.59 and a bottle of dog shampoo for \$4.75. How much more did the dog food cost than the shampoo?

$$\begin{array}{r} 12.59 \\ - 4.75 \\ \hline 7.84 \end{array}$$

15) \$7.84

Evaluate. Write fractions in simplest form.

16) $3\frac{1}{5} - -\frac{7}{2} + -1$

$$\begin{array}{r} 3\frac{1}{5} + 3\frac{7}{10} \\ 6\frac{7}{10} + -1 = 5\frac{7}{10} \end{array}$$

16) $5\frac{7}{10}$

17) $2.4 - |-3.61| - -8.3$

$$\begin{array}{r} 2.4 - 3.61 \\ 3.61 \\ - 2.40 \\ \hline -1.21 \end{array}$$

$$\begin{array}{r} -1.21 + 8.3 \\ 8.30 \\ - 1.21 \\ \hline 7.09 \end{array}$$

17) 7.09

18) $7.452 \div -2.16$

$$216 \overline{) 745.2} \quad 3.45$$

18) -3.45

Evaluate. Write fractions in simplest form.

19) $-2\frac{1}{3} \times 5\frac{1}{4}$

$$\frac{7}{3} \times \frac{21}{4} = \frac{49}{4} = 12\frac{1}{4}$$

19) see left

20) $(-\frac{3}{2})^2 - \frac{1}{3}(3\frac{1}{2})$

$$-\frac{3}{2} \times -\frac{3}{2} = \frac{9}{4} \text{ or } 2\frac{1}{4}$$

$$\frac{1}{3} \times \frac{7}{2} = \frac{7}{6} \text{ or } 1\frac{1}{6}$$

$$2\frac{1}{4} - 1\frac{1}{6}$$

$$2\frac{3}{12}$$

$$- 1\frac{2}{12}$$

$$1\frac{1}{12}$$

20) $1\frac{1}{12}$

21) $0.1 \times (-10.5) - 4.76$

$$-1.05 - 4.76$$

$$-1.05 + -4.76$$

$$\begin{array}{r} 1.05 \\ +4.76 \\ \hline -5.81 \end{array}$$

21) -5.81

22) A recipe calls for $2\frac{1}{2}$ cups of sugar. You have $2\frac{1}{3}$ cups of sugar. Do you have enough sugar?

Explain how you found your answer

$$2\frac{1 \times 3}{2 \times 3} = 2\frac{3}{6}$$

$$2\frac{1 \times 2}{3 \times 2} = 2\frac{2}{6}$$

Answer: NO

The answer is no because if you find a common denominator the sugar needed is $2\frac{3}{6}$ c. and you only have $2\frac{2}{6}$ c.

23) A 10.5 gallon aquarium is $\frac{2}{3}$ full. How many more gallons of water does it take to fill the aquarium?

$$\begin{array}{r} 3.5 \\ 3 \overline{)10.5} \\ \underline{-9} \\ 15 \end{array}$$

23) 3.5 gal

24) How many 0.45-ounce packages of cinnamon can be made with 3.15 ounces of cinnamon?

$$0.45 \overline{)3.15}$$

$$45 \overline{)315}$$

24) 7 packs