

7th Grade RED CHAPTER 2 Practice 2

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

1) $-\frac{7}{8}$

$$\begin{array}{r} 0.875 \\ 8 \overline{) 7000} \\ \underline{-64} \\ 60 \\ \underline{-56} \\ 40 \end{array}$$

2) $4\frac{5}{9}$

$$\begin{array}{r} 0.55 \\ 9 \overline{) 500} \\ \underline{-45} \\ 50 \end{array}$$

Answers

1) -0.875

2) $4.\overline{5}$

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

3) 7.625

$$\frac{625}{1000}$$

$$\begin{array}{r} 25 \overline{) 625} \quad 1000 \\ \underline{500} \\ 125 \\ \underline{100} \\ 25 \\ \underline{25} \\ 0 \end{array}$$

3) $7\frac{5}{8}$

4) -0.7

$$\frac{7}{10}$$

4) $-\frac{7}{10}$

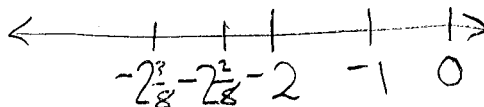
Complete the statement using <, >, or =. (1pt each)

5) $-2\frac{3}{8}$ \blacksquare $-2\frac{1 \times 2}{4 \times 2}$

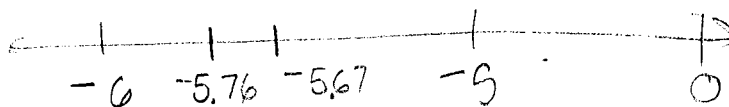
$$-\frac{23}{8}$$

$$-2\frac{2}{8}$$

5) $-2\frac{3}{8} < -2\frac{1}{4}$



6) -5.67 \blacksquare -5.76



6) $-5.67 > -5.76$

7) You spend $1\frac{2}{5}$ hours hiking and an additional $\frac{9}{10}$ hour to rest. How much time did you spend in total?

7) $2\frac{3}{10}$ hr

$$\begin{array}{r} 1\frac{2}{5} \\ + \frac{9}{10} \\ \hline 1\frac{4}{10} \\ + \frac{9}{10} \\ \hline 1\frac{13}{10} \text{ or } 2\frac{3}{10} \end{array}$$

Add or subtract. Write fractions in simplest form.

8) $-7\frac{3}{4} + -2\frac{1}{3}$

$$\begin{array}{r} 7\frac{3}{4} \\ + 2\frac{1}{3} \\ \hline 9\frac{10}{12} \\ + \frac{4}{12} \\ \hline 10\frac{14}{12} \end{array}$$

8) $-10\frac{1}{12}$

9) $-6\frac{1}{4} - -4\frac{9}{10} \rightarrow -6\frac{1}{4} + 4\frac{9}{10}$

$$\begin{array}{r} 6\frac{1}{4} \\ - 4\frac{9}{10} \\ \hline 2\frac{5}{20} \\ - \frac{18}{20} \\ \hline -1\frac{13}{20} \end{array}$$

9) $-1\frac{7}{20}$

10) $15.36 + -12.095$

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

10) 3.265

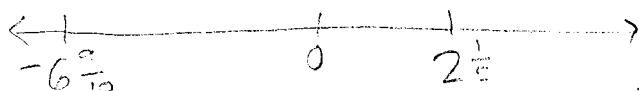
11) $-5.9 - -4.46 \rightarrow -5.9 + 4.46$

$$\begin{array}{r} 5.90 \\ - 4.46 \\ \hline 1.44 \end{array}$$

11) -1.44

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

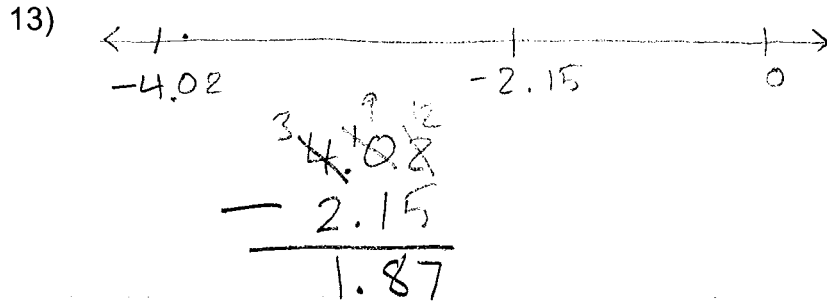
12)



$$\begin{array}{r} 6\frac{2}{10} \\ + 2\frac{1}{10} \\ \hline 8\frac{3}{10} \end{array}$$

12) $9\frac{1}{10}$

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



13) 1.87

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

14) -0.45 in.

Month	May	June	July	Aug.
Change (in.)	-0.58	-0.67	2.12	-2.67

$$-0.58 + -0.67 = -1.25$$

$$-1.25 + 2.12 = 0.87$$

$$0.87 + -2.67 = -1.80$$

$$-1.80 \div 4 = -0.45$$

15) You buy a bag of Halloween candy for \$11.59 and a pumpkin for \$3.75. How much more did the candy cost than the pumpkin?

15) \$7.84

$$\begin{array}{r} 11.59 \\ - 3.75 \\ \hline 7.84 \end{array}$$

Evaluate. Write fractions in simplest form.

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

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

$$3\frac{1}{5} + \frac{7}{2} = 3\frac{2}{10} + 3\frac{7}{2} = 3\frac{2}{10} + 3\frac{35}{10} = 6\frac{37}{10} + -1 = 5\frac{7}{10}$$

17) $1.7 - |3.5| - -9.3$

17) 7.5

$$1.7 - 3.5 = -1.8$$

$$-1.8 + 9.3 = 7.5$$

18) $7.452 \div -0.12$

18) -62.1

$$12 \overline{) 7.452} = 62.1$$

Evaluate. Write fractions in simplest form.

19) $-4\frac{1}{7} \times 5\frac{1}{4}$

$$1 \frac{29}{7} \times \frac{21}{4} = \frac{87}{4}$$

$$\begin{array}{r} 21 \\ 4 \overline{) 87} \\ \underline{-8} \\ 07 \\ \underline{-14} \\ 3 \end{array}$$

19) $-21\frac{3}{4}$

20) $(-\frac{4}{5})^2 - \frac{1}{3}(3\frac{1}{2})$

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

$$\frac{-4}{5} \times \frac{-4}{5} = \frac{16 \times 6}{25 \times 6} - 1\frac{1 \times 25}{6 \times 25}$$

$$\frac{96}{150} - 1\frac{25}{150} \rightarrow \frac{96}{150} - 1\frac{25}{150}$$

$$0 \frac{25}{150} + \frac{150}{150} - \frac{96}{150}$$

20) $\frac{-79}{150}$

$$\frac{175}{150} - \frac{96}{150} = \frac{79}{150}$$

21) $0.3 \times (-10.5) - 6.86$

$$\begin{array}{r} 10.5 \\ \times .3 \\ \hline 3.15 \end{array}$$

$$3.15 - 6.86$$

$$3.15 + -6.86$$

$$\begin{array}{r} 6.86 \\ - 3.15 \\ \hline -3.71 \end{array}$$

21) -3.71

22) A recipe calls for $5\frac{1}{2}$ cups of sugar. You have $5\frac{5}{8}$ cups of sugar. Do you have enough sugar? Explain how you found your answer

$$5\frac{1}{2} \text{ or } 5\frac{4}{8} < 5\frac{5}{8}$$

Answer: No

23) A 12.8gallon aquarium is $\frac{3}{4}$ full. How many more gallons of water does it take to fill the aquarium?

$\frac{3}{4}$ full so need $\frac{1}{4}$

$$12\frac{8}{10} \times \frac{1}{4}$$

$$\frac{128}{10} \times \frac{1}{4} = \frac{128}{40}$$

$$3\frac{8 \div 8}{40 \div 8} = \frac{1}{5}$$

$$\begin{array}{r} 40 \overline{) 128} \\ \underline{-120} \\ 8 \end{array}$$

23) 3.2 or $3\frac{1}{5}$ gal

24) How many 0.35-ounce packages of cinnamon can be made with 3.8 ounces of cinnamon?

$$\begin{array}{r} 4 \quad 2 \\ 35 \quad 35 \\ \times 8 \quad 25 \\ \hline 280 \quad 175 \end{array}$$

$$\begin{array}{r} 10.85 \\ 0.35 \overline{) 3.8000} \\ \underline{-35} \quad \downarrow \\ 30 \quad \downarrow \\ \underline{-280} \quad \downarrow \\ 200 \quad \downarrow \\ \underline{-175} \quad \downarrow \\ 250 \end{array}$$

bad question, 24) about 10 packages
Sorry!