

SSR

Read at a Level 0 until 9:15

Dec 4-8:02 AM

Opener

1. A drought can cause the level of the local water supply to drop by a few inches each week. Suppose that the level of the water supply drops 2 inches each week. How much will it change in 4 weeks?

2. Lauren consumed 1572 calories on Monday and 1250 calories on Tuesday. What was the percent decrease in caloric consumption from Monday to Tuesday?

3. In a recent poll, 115 students selected roller skating as their favorite incentive. If this represents 16% of the student body, how many students are there total?

$-2 \times 4 =$
 -8 inches

$1572 \times 8 = 12576$
 -1572
 $\hline 11004$

$1572 \div 1250 = 1.2576$
 $\cdot 79$
 $1572 \overline{) 125000}$
 $\underline{-11004}$
 149500
 $\underline{-14148}$
 812

$115 \div 0.16 = 718.75$
 00910.8
 $16 \overline{) 147000}$
 $\underline{-144}$
 23000
 $\underline{-16}$
 140

14700
 416
 $\times 8$
 $\hline 128$
 $+ 16$
 $\hline 144$

May 24-9:09 AM

Learning Targets

I can convert a rational number to a decimal.

I can solve word problems containing rational numbers.

May 24-9:10 AM

Fractions to Decimals

How do you turn a fraction into a decimal? **divide the numerator by the denominator using long division**

What kinds of decimals will fractions turn into?

terminating: the decimal stops
for example, 0.25, or 0.125

repeating: the decimal continues infinitely with a pattern

$$.333333 \rightarrow .\overline{3}$$

$$.56565656 \rightarrow .\overline{56}$$

$$.123123123 \rightarrow .\overline{123}$$

May 24-9:11 AM

1. $\frac{4}{5}$

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

2. $\frac{3}{8}$

$$\begin{array}{r} 0.375 \\ 8 \overline{)3000} \\ \underline{-24} \downarrow \\ 60 \\ \underline{-56} \downarrow \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

3. $-\frac{5}{6}$

$$\begin{array}{r} 0.833 \\ 6 \overline{)5000} \\ \underline{-48} \downarrow \\ 20 \\ \underline{-18} \downarrow \\ 20 \\ \underline{-18} \downarrow \\ 2 \end{array}$$

- .833

May 24-9:15 AM

4. $\frac{1}{9}$

$$\begin{array}{r} 0.111 \overline{1} \\ 9 \overline{)1000} \\ \underline{-9} \downarrow \\ 10 \\ \underline{-9} \downarrow \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

5. $\frac{3}{4}$

$$\begin{array}{r} 0.75 \\ 4 \overline{)300} \\ \underline{-28} \downarrow \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

6. $\frac{1}{2}$

$$\begin{array}{r} 0.60 \\ 3 \overline{)2000} \\ \underline{-18} \downarrow \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

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

$$\begin{array}{r} 3.5 \\ 2 \overline{)70} \\ \underline{-6} \downarrow \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

2 | 10
3.5

8. $-\frac{4}{10}$

$$\begin{array}{r} -4.6 \\ 5 \overline{)30} \\ \underline{-30} \\ 0 \end{array}$$

9. $\frac{1}{7}$

$$\begin{array}{r} 0.142857 \\ 7 \overline{)14000000} \\ \underline{-14} \downarrow \\ 0 \\ \underline{-14} \downarrow \\ 0 \\ \underline{-14} \downarrow \\ 0 \\ \underline{-14} \downarrow \\ 0 \\ \underline{-14} \downarrow \\ 0 \\ \underline{-14} \downarrow \\ 0 \end{array}$$

.571428

May 24-9:16 AM

Practice Makes Perfect.....

Word Problem Practice

1. Randy has two 28-pound blocks of ice for his snow cone stand. If each snow cone requires $\frac{2}{5}$ pound of ice, how many snow cones can Randy make?
2. If $\frac{5}{8}$ of the people in a water aerobics class are over age 65 and $\frac{1}{4}$ of the people in the class are under age 40, what fraction of the people in the class are either over 65 or under 40?

May 24-9:16 AM

SUMMARY

The unit is over! Tomorrow we review.

Write down ONE thing that you need more practice with before we test on rational numbers, and stick it to the side board on your way out!

May 24-9:10 AM

4- Fraction divide \Rightarrow to decimals

5- + or - fractions/decimals
2 word problems

6- \times or \div fractions/decimals
2 word problems

5- mixed problem^{word} solving

May 24-9:20 AM

+ or - fractions or decimals

ex. $-2.37 + 60.78$
 $= +58.41$

$$\begin{array}{r} \overset{5}{6}0.78 \\ - 2.37 \\ \hline 58.41 \end{array}$$

Dec 4-10:27 AM

$$-\frac{7}{3} + 3\frac{1}{2} \Rightarrow \frac{-7}{2 \times 3} + \frac{7 \times 3}{2 \times 3}$$

$$\frac{-14}{6} + \frac{21}{6} = \frac{-14+21}{6} = \frac{+7}{6}$$

Dec 4-10:33 AM

Food 13.79 Shampoo 6.83
than
= 6.96

Dec 4-10:37 AM

$$-.23 \times .75 = -.1725$$

$$\begin{array}{r} 2 \\ 23 \\ \times 75 \\ \hline 115 \\ +1610 \\ \hline 1725 \end{array}$$

Dec 4-10:40 AM

$$\left(\frac{-3}{6}\right)\left(\frac{74}{2}\right)$$

$$\frac{-3 \rightarrow 18}{6 \rightarrow 2} = \frac{-54 \div 6}{12 \div 6} = \frac{-9}{2}$$

Dec 4-10:42 AM

$2\frac{1}{4}$ cups of sugar quadruple

$$\frac{9}{4} \times \frac{4}{1} = \frac{36}{4} = \frac{9}{1}$$

9 cups

Dec 4-10:46 AM

$-7.2 \div 28.6 = -.251$

$28.6 \overline{) 7.2}$

$$\begin{array}{r} 286 \\ \times 2 \\ \hline 572 \\ + 286 \\ \hline 858 \end{array}$$

$$\begin{array}{r} 00.251 \\ 286 \overline{) 672000} \\ \underline{-572} \\ 1480 \\ \underline{-1430} \\ 04500 \\ \underline{-286} \\ 214 \end{array}$$

Dec 4-10:48 AM

$$-\frac{3}{9} \div \frac{6}{30} = -$$

$$-\frac{3}{9} \cdot \frac{30}{6} = \frac{-90 \div 9}{54 \div 9} = \frac{-10 \div 2}{6 \div 2} = \frac{-5}{3}$$

Dec 4-10:56 AM

$\frac{3}{4}$ package of

12 ounces

12 ounces
3/4 packages

$$\frac{12}{1} \cdot \frac{4}{3} = \frac{48}{3} = 16$$

$$\begin{array}{r} 16 \\ 3 \overline{)48} \\ \underline{-3} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

Dec 4-10:59 AM

today
37.29

83.16 more
than yesterday

$$37.29 + 83.16$$

$$= 120.45$$

$$\begin{array}{r} 212 \\ 83.16 \\ - 37.29 \\ \hline 45.87 \end{array}$$

Dec 4-11:02 AM