Math 7 - Sections 1.1-1.3 Review Problems Station # 2 Complex Fractions and Unit Rates



Things to remember:

- * Keep numbers in fraction form and show fraction computation.
- * The order is important. The rate _____ per ____ means the first thing is in the numberator and the second is in the denominator.
- * ALWAYS write a WORD rate first!

1) Simplify. Do not convert to decimals.

A)
$$2\frac{1}{4}$$
 36

B)
$$\frac{1}{10}$$
 $\frac{4}{5}$



2) It takes Linda 20 minutes to read $8\frac{1}{3}$ pages of a book. What is her average reading rate in pages per minute?

$$\frac{pages}{min} = 8\frac{1}{3} + 20$$
 $= 25 + 20$
 $= 25 + 20$

$$=\frac{25}{3}+\frac{26}{1}$$

$$=$$
 $\left(\frac{5}{12}\right)$

3) Write $11\frac{1}{9}$ % as a fraction in simplest form.

$$11\frac{1}{9}\% = \frac{11\frac{1}{9}}{100} = 11\frac{1}{9} \div 100$$

$$\left(\begin{array}{c} 1 \\ \overline{q} \end{array}\right)$$

4) On his last math quiz, Mr. Macy answered $5\frac{2}{3}\%$ of the questions incorrectly. Write this percent as a fraction in simplest form.

3/-

3 100

cost was \$11. What was the cost per yard? 5) Mrs. Easton is making a curtain. She bought $2\frac{3}{4}$ yards of fabric. Her total

t - 1=

W W W A

bought $3\frac{3}{4}$ yards of fabric for \$27. What was the cost per yard? 6) Use a complex fraction to find out the cost per yard for fabric Jen

27 - 15

18

7) Use a complex fraction to help you find the following: In $1\frac{3}{4}$ hours, Sara runs $10\frac{1}{2}$ miles. Find her average rate of speed in miles per hour.

$$\frac{\text{miles}}{\text{hoor}} = \frac{10\frac{1}{2}}{1\frac{3}{4}} = 10\frac{1}{2} + 1\frac{3}{4}$$

$$= \frac{31}{21} + \frac{7}{4}$$

$$= \frac{3}{21} \cdot \frac{7}{4}$$