

Name: Key
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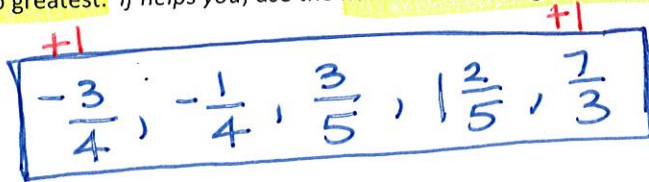
MATH PRACTICE

15

14-A 11-C 9-D
13-B 10-D 8-F
12-B
Week 20
Due: Thursday, 2/21

6-116. Arrange the numbers below from least to greatest. If helps you, use the number line to organize the numbers.

$\left(\frac{3}{5}\right) \left(\frac{7}{3}\right) \left(\frac{3}{4}\right) \left(1\frac{2}{5}\right) \left(\frac{1}{4}\right)$



$2\frac{1}{3}$
 $\frac{\$36}{4\text{hrs.}} = \frac{\$9}{1\text{hr.}}$

7-9. Adam earns \$36 for every four hours of work. If he continues to be paid at the same rate:

a) How long will it take him to earn \$144?

$\frac{\$9}{1\text{hr.}} \times \frac{16}{16} = \frac{\$144}{16\text{hrs.}}$

b) How much would he earn for a 7-hour day?

$\frac{\$9}{1\text{hr.}} \times \frac{7}{7} = \frac{\$63}{7\text{hrs.}}$

*Consider using a table to organize and look for a pattern.

6-117. Use the shape below to answer the following (You may want to attach a piece of graph paper to help you.)

a) What is the area?

+1 27 sq. units

b) What is the perimeter?

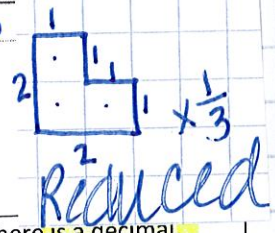
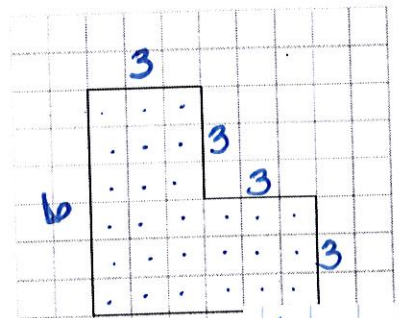
+1 24 units

c) What would the perimeter be if you enlarged the shape ratio by a ratio of $\frac{3}{1}$?

+1 $24 \times 3 = 72 \text{ units}$

d) What would the perimeter be if you reduced the shape by a ratio of $\frac{1}{3}$?

+1 $24 \times \frac{1}{3} = \frac{24}{3} = 8 \text{ units}$



6-118. Mia is raising cows. She has a rectangular pasture for them that is 0.65 square miles in area. One side of the pasture is 0.4 miles long.

a) Draw a diagram.



b) What is the length of the other side of the pasture?

1.625 mi +1

c) How much fencing will she need to go around the pasture?

4.050 mi +1

$$\begin{array}{r} 1.625 \\ 1.625 \\ \hline 3.250 \\ + 0.800 \\ \hline 4.050 \end{array}$$

$0.4 \overline{) 0.650}$

$$\begin{array}{r} 0.1625 \\ 0.4 \overline{) 0.650} \\ \underline{-40} \\ 250 \\ \underline{-240} \\ 100 \\ \underline{-100} \\ 0 \end{array}$$

7-21. Write each of the following so that there is a decimal, percent and fraction for each value.

a) $\frac{3}{5} \times \frac{2}{2} = \frac{6}{10} = \frac{60}{100}$ $\frac{60\%}{0.6}$ +1

b) $0.7 = \frac{7}{10} = \frac{70}{100}$ 70%

c) $16\% = \frac{16}{100} = \frac{8}{50} = \frac{4}{25}$ 0.16 +1

d) $2.45 = \frac{245}{100} = 2\frac{9}{20}$ 245% +1