REFRESHER MATH UNIT A TEST – PRACTICE FORM

Rules for Test Completion

1. Present your work in a neat and organized manner. Use complete sentences whenever you are asked to make a statement.
2. SHOW YOUR WORK: Partial credit will be awarded on the basis of the work shown.
3. Make sure you answer ALL parts of problems.

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1. [6] Write fractions that represent the part of each figure that is shaded. Give your answers in lowest terms.

a.  b.  c. 

2. [8] Write fractions for each of the *parts* described below. Give your answers in lowest terms.
   a. What fraction of a mile is 1,259 feet? Remember, 5,280 feet equals a mile.
   b. Five hours is what fraction of a day?
   c. If the length of the trip is 327 miles, what fraction of the trip has been completed at 203 miles?
   d. Beverly makes $1,879 a month. Of this, she puts $150 into savings each month. What fraction of her pay does she put into savings?

3. [3] Give an example of each of the following:
   a. improper fraction b. mixed number c. proper fraction

4. [48] Perform the indicated operations. Give your answers as proper fractions or mixed numbers in lowest terms.

a. $\begin{array}{r} \frac{9}{10} \\ -\ \frac{6}{10} \\ \hline \end{array}$ b. $\begin{array}{r} \frac{14}{25} \\ +\ \frac{7}{25} \\ \hline \end{array}$ c. $\begin{array}{r} \frac{3}{5} \\ +\ \frac{1}{6} \\ \hline \end{array}$ d. $\begin{array}{r} \frac{7}{12} \\ -\ \frac{3}{8} \\ \hline \end{array}$

e. $^{5}/_{9} * {}^{3}/_{25}$ f. $\begin{array}{r} 9\frac{7}{10} \\ -\ 5\frac{15}{16} \\ \hline \end{array}$ g. $^{8}/_{5} \div {}^{4}/_{15}$ h. $\begin{array}{r} 6 \\ -\ 2\frac{11}{12} \\ \hline \end{array}$

i. $3^{3}/_{4} \div 1^{7}/_{8}$ j. $6^{3}/_{11} * 2^{5}/_{23}$ k. $\begin{array}{r} 6\frac{7}{9} \\ +11\frac{13}{18} \\ \hline \end{array}$ l. $3^{7}/_{8} + 5^{1}/_{16} + {}^{3}/_{10}$

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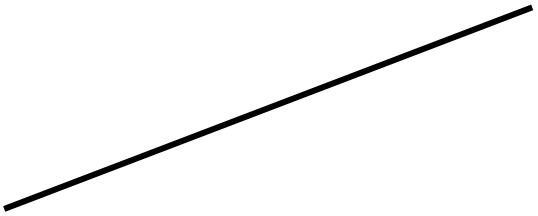
5. [4] Measure each line to the nearest $^1/_{16}$ inch. Give your answers in lowest terms.

a.

b .



6. **Completely solve any 5** of the following using steps (*i*), (*ii*), and (iii) below.

   i. [1] State what it is you are to find. Give your answer as a complete sentence.
   ii. [4] Solve the problem, showing your work. Be sure to reduce fractions to proper fractions or mixed numbers in lowest terms.
   iii. [1] State the answer in a complete sentence.

   a. [6] Last week Lynn worked three-fourths of her normal 32-hour work week. How many hours did Lynn work last week?

   b. [6] Stacy is $5^5/_8$ inches taller than her mother. If Stacy is $64^1/_4$ inches tall, how tall is her mother?

   c. [6] How many cabinets can a carpenter build from 24 yards of lumber if each cabinet uses $2^2/_3$ yards of lumber?

   d. [6] Jim and Marcia are putting new molding around the floor of their bedroom. They need pieces of the following lengths: $11^1/_2$ feet, $9^3/_4$ feet, 2 feet, $3^1/_4$ feet, and $9^3/_4$ feet. What is the total length of molding they need for this job?

   e. [6] Paul's regular hourly wage is $8.40. What is his hourly overtime wage if he gets "time and a half" ($1^1/_2$ times his regular wage) for overtime work?

   f. [6] If five equal weight containers weigh a total of $28^3/_4$ pounds, how much does one container weigh?

   g. [6] Rudy had $1^5/_8$-pounds of butter. If he used $^3/_4$ of a pound to make cookies, how much butter does he have left?

ANSWER KEY

1. a. $^4/_5$ b. $^9/_{25}$ c. $^4/_9$
2. a. $^{1,259}/_{5,280}$ b. $^5/_{24}$ c. $^{203}/_{327}$ d. $^{150}/_{1,879}$
3. Answers will vary. Examples: a. $^9/_4$ b. $6^2/_7$ c. $^{31}/_{32}$
4. a. $^3/_{10}$ b. $^{21}/_{25}$ c. $^{23}/_{30}$ d. $^5/_{24}$ e. $^1/_{15}$ f. $3^{61}/_{80}$
   g. 6 h. $3^1/_{12}$ i. 2 j. $13^{10}/_{11}$ k. $18^1/_2$ l. $9^{19}/_{80}$
5. a. $1^3/_4$ b. $2^{15}/_{16}$
6. a. 24 hours b. $58^5/_8$ inches c. 9 cabinets d. $36^1/_4$ feet
   e. \$12.60/hour f. $5^3/_4$ pounds g. $^7/_8$ pound