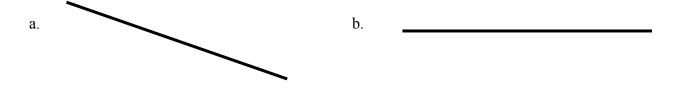
Refresher Math Unit B Test – Practice Form

Ground Rules for Test Completion

- 1. Present your work in a neat and organized manner. Use <u>complete sentences</u> 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.
- 4. To help you review, I've noted related sample problems in brackets. (For example, [A3:1 p3] tells you that part 3 of Sample Problem 1 in Problem Set A3 is similar to the problem at hand.)

- 1. [18] Answer the following questions about fractions and mixed numbers.
 - a. Use a sketch to represent the fraction $\frac{7}{8}$. [A3:1 p1]
 - b. Use a sketch to represent the mixed number $4^{5}/_{6}$. [A3:2 p1]
 - c. Find the sum of $^{7}/_{8}$ and $4^{5}/_{6}$. [A3:2 p4]
 - d. Find the difference between $4^{5}/_{6}$ and $7/_{8}$. [A3:2 p5]
 - e. Find the product of $4^{5}/_{6}$ and $7/_{8}$. [A3:5]
 - f. Find the quotient of $4^{5}/_{6}$ divided by $^{7}/_{8}$. [A3:7]
- 2. [6] Write fractions in lowest terms for each of the *parts* described below.
 - a. What fraction of a yard is 14 inches?
 - b. Four days is what fraction of a week?
 - c. If Jeff borrowed \$5,682 to buy his car, what fraction of the loan has he paid after paying \$3,354?
- 3. [3] Give an example of each of the following:
 - a. improper fraction b. mixed number c. proper fraction
- 4. [10] Answer the following questions about decimals.
 - a. Convert $\frac{7}{8}$ to a decimal. [B1:5]
 - b. Convert $4^{5}/_{6}$ to a mixed decimal. [B1:7]
 - c. Convert forty-eight hundredths to a fraction in lowest terms. [B1:6]
 - d. Convert 3,605.1208 to a mixed number in lowest terms. [B1:8]
 - e. Express 3,605.1208 in words. [B1:2]
- 5. [4] Round 1,509,632.528705 to the indicated place values. [B1:3]
 - a. nearest tenth b. nearest hundredth c. nearest hundred d. nearest ten-thousandth
- 6. [2] Measure each line below to the nearest tenth of a centimeter. [B1:9]



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7. [27] Simplify by doing the indicated operations. For fraction problems, give your answer as a proper fraction or mixed number in lowest terms.

$$57 \frac{4}{15}$$
a.
$$\frac{+39 \frac{17}{20}}{20}$$
b.
$$\frac{+6,535.409}{10,260.07}$$
c.
$$\frac{-58 \frac{3}{8}}{8}$$
d.
$$81.2891 \div 2.57 =$$
e.
$$7^{1}/_{4} \cdot 7/_{10} \cdot 2^{0}/_{14} =$$
f.
$$17.09 - 4.286 =$$
g.
$$3^{3}/_{5} \div 2^{9}/_{15} =$$
h.
$$23 + 7 \cdot 3 =$$
i.
$$23 - (21 - 17) * 4 =$$

- 8. [30] <u>Completely solve any 5</u> 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. Last week Terry worked four-fifths of his normal 35-hour work week. How many hours did Terry work last week?
 - b. Jamie bought one dozen cassette tapes at \$1.29 each and a dozen eggs for \$1.89. If the sales tax came to 85¢, what was Jamie's total bill?
 - c. Sally is $2^{5}/_{16}$ inches shorter than her brother. If her brother is $67^{1}/_{4}$ inches tall, how tall is Sally?
 - d. How many pieces of wood ten and three-eighths inches long can be cut from a board eight feet long?
 - e. After driving 274 miles it took 10.6 gallon's to fill the gas tank on Tanya's car. If the gas tank on Tanya's car holds a total of 16.5 gallons, how far could she drive on one tank of gas at this mileage? Round your answer to the nearest tenth of a unit **during your calculations**.
 - f. Larry's hourly overtime wage is \$12.81. If he gets "time and a half" $(1^{1}/_{2} \text{ times his regular wage})$ for overtime work what is his regular hourly wage?
 - g. Joan used three trips with her truck to pick up firewood. The first trip she hauled five-eighths of a cord. The second trip she hauled three-fourth of a cord. On the last trip she hauled half of a cord. How many cords of wood did Joan haul?

ANSWER KEY

1.	a.] b.	c. $5^{17}/_{24}$	d. $3^{23}/_{24}$	e. 4 ¹¹ / ₄₈	f. 5 ¹¹ / ₂₁
	a. $\frac{1}{18}$ b. $\frac{4}{18}$	'7 c. ⁵⁵⁹ /947	3. a. $^{\rm B}/_{\rm S}$	b. W ^S / _B	c. $^{S}/_{B}$ (B: Big, S:	Small, W: Whole)
4.		b. 4.8 3	-0	,	1200	
	e. three thousand six hundred five and one thousand two hundred eight ten-thousandths					
5.	a. 1,509,632.	5 b. 1,509,6	32.53 c. 1,5	509,600	d. 1,509,63	2.5287
6.	a. 6.2 cm	b. 6.6 cm	7. a. $97^{7}/_{60}$	b. 20,762	2.977 c. $17^{19}/_{24}$	d. 31.63
	7e. $7^{1}/_{4}$	f. 12.804	g. $1^{5}/_{13}$	h. 44	i. 7	
8.	a. 28 hr.			$^{15}/_{16}$ in.	d. 9 pc.	e. 425.7 mi.
	f. \$8.54	g. $1^{7}/_{8}$ con	ds			