Student: Tim Busken **Date:** 8/19/15 **Time:** 3:29 PM	**Instructor:** Tim Busken **Course:** Algebra for Statistics **Book:** Almy: Math Lit: A Pathway to College Mathematics	**Assignment:** Lesson 1.6 Part and Whole

1. Write the fraction in lowest terms.

$$\frac{40}{56}$$

Select the correct choice below and, if necessary, fill in the answer box within your choice.

○ A. The fraction $\frac{40}{56}$ in lowest terms, is ☐. (Type an integer or a fraction.)

○ B. The fraction $\frac{40}{56}$ is already in lowest terms.

2. Write the fraction in lowest terms.

$$\frac{5}{40}$$

Select the correct choice below and, if necessary, fill in the answer box within your choice.

○ A. The fraction $\frac{5}{40}$ in lowest terms, is ☐. (Type an integer or a fraction.)

○ B. The fraction $\frac{5}{40}$ is already in lowest terms.

3. Write the following fraction in lowest terms.

$$\frac{15}{77}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

○ A. The fraction $\frac{15}{77}$, in lowest terms, is ☐. (Type an integer or a fraction.)

○ B. The fraction $\frac{15}{77}$ is already in lowest terms.

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4. Decide whether the fractions $\frac{6}{9}$ and $\frac{4}{6}$ are equivalent or not equivalent.

Are $\frac{6}{9}$ and $\frac{4}{6}$ equivalent or not equivalent?

- ○ The two fractions are not equivalent.
- ○ The two fractions are equivalent.

5. Decide whether the fractions $\frac{2}{4}$ and $\frac{3}{8}$ are equivalent or not equivalent.

Are $\frac{2}{4}$ and $\frac{3}{8}$ equivalent or not equivalent?

- ○ The two fractions are equivalent.
- ○ The two fractions are not equivalent.

6. Decide whether the fractions $\frac{3}{6}$ and $\frac{2}{4}$ are equivalent or not equivalent.

Are $\frac{3}{6}$ and $\frac{2}{4}$ equivalent or not equivalent?

- ○ A. The two fractions are not equivalent because the fractions have different numerators and denominators.
- ○ B. The two fractions are equivalent because both fractions are proper fractions.
- ○ C. The two fractions are not equivalent because when both fractions are rewritten in lowest terms, the fractions are not equal.
- ○ D. The two fractions are equivalent because when both fractions are rewritten in lowest terms, the fractions are equal.

7. Perform the fraction operation and write the answer in simplest form.

$$\frac{1}{54}+\frac{1}{6}$$

$\frac{1}{54}+\frac{1}{6}=$ ☐

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8. Perform the fraction operation and write the answer in simplest form.

$$\frac{7}{30}-\frac{1}{36}$$

$\frac{7}{30}-\frac{1}{36}=$ ☐

9. Perform the fraction operation and write the answer in simplest form.

$$\frac{5}{12}\cdot\frac{3}{10}$$

$\frac{5}{12}\cdot\frac{3}{10}=$ ☐ (Type an integer or a simplified fraction.)

10. Perform the fraction operation and write the answer in simplest form.

$$\frac{11}{21}\div\frac{1}{35}$$

$\frac{11}{21}\div\frac{1}{35}=$ ☐ (Type an integer or a simplified fraction.)

11. Multiply and simplify.

$$\frac{12}{13}\cdot\frac{11}{8}$$

The product is ☐.
(Type an integer or a simplified fraction.)

12. Divide and simplify.

$$\frac{5}{8}\div\frac{35}{11}$$

$\frac{5}{8}\div\frac{35}{11}=$ ☐ (Type an integer or a simplified fraction.)

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13. Add the fractions.

$\frac{2}{3}+\frac{1}{9}$

$\frac{2}{3}+\frac{1}{9}=$ ☐

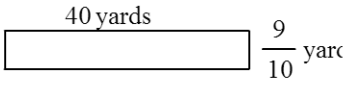
(Type an integer or a simplified fraction.)

14. Add and simplify.

$\frac{1}{27}+\frac{5}{6}$

$\frac{1}{27}+\frac{5}{6}=$ ☐ (Type an integer or a simplified fraction.)

15. Use the diagram to find the area of the rectangle. Give your answer as a whole or mixed number.



The area of the rectangle is ☐ square yards.

(Simplify your answer.)

16. Solve.

Ariel receives $32 for working a full day doing inventory at a hardware store. How much can she get for working $\frac{3}{8}$ of a day?

Ariel will earn $☐ for working $\frac{3}{8}$ of a day.

17. A student's tuition was $3990. A loan was obtained for 4/5 of the tuition. How much was the loan?

The student's loan was for $☐

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18. A family has an annual income of $23,400. Of this, $\frac{1}{4}$ is spent for food, $\frac{1}{5}$ for housing, $\frac{1}{10}$ for clothing, $\frac{1}{9}$ for savings, $\frac{1}{4}$ for taxes, and the rest for other expenses. How much is spent for taxes?

$\square$ is spent for taxes.

19. A piece of wire $\frac{3}{5}$ m long is to be cut into 6 pieces of the same length. What is the length of each piece?

Each piece is $\square$ m long.
(Simplify your answer. Type an integer or a fraction.)

20. A new long-life tire has a tread depth of $\frac{3}{8}$ inch, instead of the more typical $\frac{7}{32}$ inch. How much deeper is the new tire?

The new tire is $\square$ inch deeper. (Simplify your answer. Type an integer or a fraction.)