

Name: \_\_\_\_\_

Complete this worksheet **WITHOUT** the use of a calculator. Include your work on another sheet of paper.

1. Find the following sums:

- a)  $\frac{3}{7} + \frac{5}{11}$
- b)  $\frac{4}{9} + \frac{7}{15}$
- c)  $\frac{5}{12} + \frac{7}{18}$

2. Which of the following is equal to  $8 \frac{1}{3}$ ?

- a)  $7 \frac{3}{3}$
- b)  $7 \frac{4}{3}$
- c)  $7 \frac{5}{3}$
- d)  $8 \frac{3}{3}$
- e)  $8 \frac{4}{3}$

3. What happens when you multiply a fraction by its reciprocal?

4. Evaluate  $(\frac{1}{4})^3$ .

5. Which of the following represents the best way to estimate the price of  $3 \frac{1}{8}$  pounds of beef that cost \$3.97 a pound?

- a)  $3 \times \$3 = \$9$
- b)  $3 \times \$4 = \$12$
- c)  $3 \times \$5 = \$15$
- d)  $3.8 \times \$4 = \$15.20$
- e)  $4 \times \$4 = \$16$

6. Phil lives in a city where the cost of a ride on the public transportation system is \$1.50. A travel card with a magnetic stripe can be purchased in any amount. Each time a rider uses a travel card to ride a bus or subway, a small screen shows the dollar amount left on the card. Phil and some of his friends described the method each of them used to calculate the number of rides left on a travel card. Which of the following methods does NOT work?

- a) Anna divides the number on the screen by  $1 \frac{1}{2}$ .
- b) Carlos multiplies the number on the screen by 2 and then divides the result by 3.
- c) Florence multiplies the number on the screen by  $\frac{2}{3}$ .
- d) John multiplies the number on the screen by 3 and then divides the result by 2.
- e) Phil carries a small calculator in his wallet and divides the number on the screen by 1.5.

7. Barbara wants to cut blocks of wood each  $5 \frac{1}{4}$  inches long from a board. Assuming no waste from cutting, what is the largest number of complete blocks that Barbara can cut from a board that is 40 inches long?

8. Find the following products:

- a)  $(\frac{3}{7})(\frac{5}{11})$
- b)  $(\frac{6}{35})(\frac{5}{21})$
- c)  $(\frac{4}{8})(\frac{6}{15})$

9. Find the following quotients:

- a)  $(\frac{3}{4}) \div (\frac{5}{7})$
- b)  $(\frac{6}{7}) \div (\frac{2}{21})$
- c)  $(\frac{1}{6}) \div (\frac{2}{15})$

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