

SPARK Hybrid Education Center

Mathematics | Week 3: Proportions | Lower Level

Name: _____

Date: _____

Directions: Solve each problem. Show your work in the space provided. Circle your final answer.

1. Solve the proportion: $\frac{3}{4} = \frac{x}{12}$

2. Is $\frac{4}{6} = \frac{10}{15}$ a true proportion? Show work.

3. A map uses 1 inch = 50 miles. How many inches for 325 miles?

4. Solve: $\frac{7}{x} = \frac{14}{8}$

5. A recipe for 4 serves uses 3 cups oats. For 10 servings?

6. If 5 workers build a wall in 6 days, how long for 3 workers?

7. Solve: $\frac{x}{9} = \frac{8}{12}$

8. A model car is built at scale 1:24. Car is 4.5 in. long. Real car length?

--- Answer Key (Cut before distributing) ---

1. $x = 9$
2. Yes: $4 \times 15 = 60 = 6 \times 10$
3. 6.5 inches
4. $x = 4$
5. 7.5 cups
6. 10 days
7. $x = 6$
8. 108 inches (9 feet)

