

Lesson 3 Homework Practice

Complex Fractions and Unit Rates

BE SURE TO SHOW YOUR WORK!

Simplify.

1. $\frac{\frac{1}{3}}{\frac{3}{4}}$

2. $\frac{\frac{3}{4}}{\frac{4}{8}}$

3. $\frac{\frac{3}{2}}{\frac{2}{3}}$

4. $\frac{\frac{4}{1}}{\frac{1}{3}}$

5. $\frac{\frac{5}{6}}{\frac{6}{3}}$

6. $\frac{\frac{3}{5}}{\frac{5}{4}}$

7. $\frac{\frac{3}{4}}{\frac{6}{7}}$

8. $\frac{\frac{4}{15}}{\frac{2}{5}}$

9. $\frac{\frac{6}{7}}{\frac{9}{14}}$

10. Jonathan can jog $3\frac{2}{5}$ miles in $\frac{7}{8}$ hour. Find his average speed in miles per hour.

11. A truck driver drove 120 miles in $1\frac{3}{4}$ hours. What is the speed of the truck in miles per hour?

12. Charlotte reads $8\frac{1}{3}$ pages of a book in 10 minutes. What is her average reading rate in pages per minute?

Lesson 3 Problem-Solving Practice

Complex Fractions and Unit Rates

<p>1. Caroline drove 350 miles to the beach. The trip took her $5\frac{1}{4}$ hours. What was her average speed in miles per hour?</p>	<p>2. A small airplane used $5\frac{2}{3}$ gallons of fuel to fly a 2 hour trip. How many gallons were used each hour?</p>
<p>3. Madison wants to make cookies for her little sister's birthday party. She is cutting a roll of cookie dough into pieces that are $\frac{1}{2}$-inch thick. If the roll is 13 inches long, how many cookies can she make?</p>	<p>4. Anita is making a curtain to surround a table. She bought $3\frac{1}{4}$ yards of fabric. Her total cost was \$13. What was the cost per yard?</p>
<p>5. Russell runs $\frac{9}{10}$ mile in 5 minutes. How many miles does he run in one minute?</p>	<p>6. The Franklins have a home loan with an interest rate of $4\frac{1}{4}\%$. Write the percent as a fraction in simplest form.</p>