Name: _____

2-2 Additional Practice

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Leveled Practice In **1–4**, find the unit rate.

1.

Miles	$\frac{1}{5}$	
Hours	$\frac{1}{65}$	

_____ miles per hour

2. $\frac{650 \text{ ft}^2}{\frac{2}{3}\text{h}} = \frac{650 \div \square}{\square \div \square}$

$= \frac{650 \times \square}{\square \times \square} = \frac{\square}{\square}$

_____ square feet per hour

3. $\frac{\frac{1}{7} \text{ inch}}{\frac{1}{14} \text{ minute}}$

_____

4. $\frac{\frac{7}{5} \text{ miles}}{\frac{2}{3} \text{ hour}}$

_____

5. A store sells two kinds of candles, scented and unscented. The candles burn at different rates. Which kind of candle burns more in one hour? How much more per hour?

Type of Candle	Rate of Burn
Scented	$\frac{1}{8}$ inch in $\frac{1}{4}$ hour
Unscented	$\frac{1}{9}$ inch in $\frac{1}{3}$ hour

6. In the first $\frac{1}{6}$ hour of a rainstorm, $\frac{1}{10}$ inch of rain fell. If the rain continued to fall at the same rate, how much rain fell in $2\frac{1}{2}$ hours?

7. A recipe calls for $\frac{1}{2}$ cup of Ingredient A for every $1\frac{2}{3}$ cups of Ingredient B. How many cups of Ingredient B do you need when using 4 cups of Ingredient A?

8. Graham drove $42\frac{1}{3}$ miles in $1\frac{1}{3}$ hours.

a. How many miles did he drive in one hour?

b. How many hours did he take to drive one mile?

9. Construct Arguments Al made a tree house last summer. He started by making a model. The model included a window with a height of $\frac{1}{3}$ inch and a width of $\frac{1}{6}$ inch. The actual window had a height of $\frac{1}{2}$ yard and a width of $\frac{1}{4}$ yard. Was Al's model an accurate representation? Explain. MP.3

10. Be Precise Yesterday, Noah ran $2\frac{1}{2}$ miles in $\frac{3}{5}$ hour. Emily ran $3\frac{3}{4}$ miles in $\frac{5}{6}$ hour. Anna ran $3\frac{1}{2}$ miles in $\frac{3}{4}$ hour. How fast, in miles per hour, did each person run? Who ran the fastest? MP.6

11. Higher Order Thinking Josh plans to make birdhouses to sell at a craft fair. The sample of wood he uses has an area of $\frac{1}{5}$ square foot and weighs $\frac{1}{2}$ pound. The local hardware store sells the wood only by the square yard. There are 9 square feet in 1 square yard.

a. How many pounds of the wood are there in one square yard?

b. If Josh needs 3 square yards of the wood in all, how many pounds of the wood does he need?

Assessment Practice

12. A map shows the town where Niko lives. The actual distance from Niko's house to his school is 3 miles, and measures one-half inch on the map. The actual distance from Niko's school to the library is 4 miles. How long is this distance on the map?

13. A group of penguins swam $\frac{4}{5}$ mile in $\frac{1}{3}$ hour. Use the table to find how many miles the penguins swam in one hour if they swam at about the same pace for the entire hour.

The penguins swam ____ miles in one hour.

Miles		
Hours	$\frac{1}{3}$	