Name _____ Date _____

Unit Rates - CENTER #5

1. Brandon enters bike races. He bikes $8\frac{1}{2}$ miles every $\frac{1}{2}$ hour. Complete the table to find how far Brandon bikes for each time interval.

Distance (mi)	$8\frac{1}{2}$				
Time (h)	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$

Simplify each complex fraction.

2. $\dfrac{\frac{3}{4}}{\frac{2}{3}} = $ _____

3. $\dfrac{\frac{1}{2}}{\frac{5}{8}} = $ _____

4. $\dfrac{\frac{4}{5}}{\frac{2}{3}} = $ _____

5. $\dfrac{\frac{6}{7}}{\frac{1}{7}} = $ _____

Find each unit rate.

6. Julio walks $3\frac{1}{2}$ miles in $1\frac{1}{4}$ hours.

_____

7. Kenny reads $\frac{5}{8}$ page in $\frac{2}{3}$ minute.

_____

8. Marcia uses $\frac{3}{4}$ cup sugar when she halves the recipe.

_____

9. Sandra tiles $\frac{5}{4}$ square yards in $\frac{1}{3}$ hour.

_____

Use the information for two cell phone companies to solve Exercises 10–14.

10. What is the unit rate for On Call?

_____

11. What is the unit rate for Talk Time?

_____

On Call	Talk Time
3.5 hours: $10	$\frac{1}{2}$ hour: $1.25

12. Determine which of the companies offers the best deal. Explain your answer.

_____

13. Another company offers a rate of $0.05 per minute. How would you find the unit rate per hour?

_____

14. Is the company in Exercise 13 a better deal than On Call or Talk Time?

_____

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