Name _____ Date _____

***Ready*® Mathematics**

Lesson 9 Quiz

Solve the problems.

1 Martin and Alexia are rock climbing. Each person's rate stays the same for the first hour they climb.

- Martin climbs $3\frac{1}{3}$ meters in the first $\frac{1}{6}$ hour.
- Alexia climbs $17\frac{1}{2}$ meters in the first $\frac{5}{6}$ hour.

Which statements are true? Choose all that apply.

A Martin climbs at a rate of 20 meters per hour.

B Alexia takes $\frac{1}{21}$ of an hour to climb one meter.

C Martin climbs at a rate of $\frac{1}{20}$ meter per hour.

D Alexia climbs at a rate of 21 meters per hour.

E Martin takes $\frac{1}{20}$ of an hour to climb one meter.

F Alexia climbs at a rate of $\frac{1}{21}$ meter per hour.

2 Sarah is training for a bike race. She rides her bike $5\frac{3}{4}$ miles in $\frac{1}{3}$ hour. What is Sarah's rate in miles per hour? Express your answer as a mixed number.

Show your work.

Answer: _____ miles per hour

3 Donovan bought $5\frac{1}{2}$ kilograms of flour for $8.25.

Tell whether each statement is *True* or *False*.

a. The product $\left(\frac{33}{4}\right)\left(\frac{2}{11}\right)$ gives the price of one kilogram of flour. ☐ True ☐ False

b. Donovan paid less than $1.25 per kilogram of flour. ☐ True ☐ False

c. $1.00 can purchase $\frac{2}{3}$ kilogram of flour. ☐ True ☐ False

Name _____ Date _____

Lesson 9 Quiz continued

4 A stand at a farmer's market sells different types of apples, as shown in the table.

	Apple A	Apple B	Apple C
Cost ($)	6.90	0.90	0.45
Weight	6 lb	12 oz	$\frac{1}{4}$ lb

1 lb = 16 oz

Which type of apple costs the least per pound?

Show your work.

Answer: _____

5 Jami can mow $\frac{1}{6}$ acre in 8 minutes. If her rate is constant, can Jami mow $1\frac{1}{2}$ acres in one hour? Explain your reasoning.

_____

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