N.(

minutes.

Q.	A.1: Using Rate 1a		
1	Patricia is trying to compare the average rainf states for the months of July through Septemb 1) feet per hour 2) inches per hour		
		- ,	
2	The owner of a landscaping business wants to know how much time, on average, his workers spend mowing one lawn. Which is the most appropriate rate with which to calculate an answer to his question? 1) lawns per employee 3) employee per lawns		
	2) lawns per day	4)	hours per lawn
3	A student spent 15 minutes painting a 2-foot be did it take the student to paint 1 square foot? 1) 0.4 2) 1.5	3) 4)	2.5 3.5
4	A cell phone can receive 120 messages per m seconds?	inute.	At this rate, how many messages can the phone receive in 150
	1) 48 2) 75	3) 4)	300 18,000
	2) 13	7)	16,000
5	beats would there be in a class that is 0.75 hou	ur lon	-
	1) 90	3)	
	2) 160	4)	7,200
6	the gas cost, to the <i>nearest dollar</i> , to travel 18	30 mil	
	1) 9 2) 36	3) 4)	45 80
	2) 30	7)	
7			used 23.2 gallons of gasoline. His sister, Ann, drove 225 miles isoline. Whose vehicle had better gas mileage? Justify your
8	Joseph typed a 1,200-word essay in 25 minute	es. At	t this rate, determine how many words he can type in 45

N.Q.A.1: Using Rate 1a

Answer Section

1 ANS: 3 REF: 081609ai 2 ANS: 4 REF: 081909ai

3 ANS: 3
$$\frac{15}{2 \times 3} = 2.5$$

REF: 011509ia

4 ANS:
$$3$$

$$\frac{120}{60} = \frac{m}{150}$$

$$m = 300$$

REF: 081202ia

5 ANS: 3
0.75 hours = 45 minutes.
$$\frac{120}{1} = \frac{x}{45}$$

$$x = 5400$$

REF: 080814ia

6 ANS: 2
$$\frac{20}{3.98} = \frac{180}{x}$$

$$20x = 716.4$$

$$x = 35.82 \approx 36$$

REF: 011302ia

7 ANS:

Ann's.
$$\frac{225}{15} = 15 \text{ mpg}$$
 is greater than $\frac{290}{23.2} = 12.5 \text{ mpg}$

REF: 060831ia

8 ANS:

$$2,160 \quad \frac{1,200}{25} = \frac{x}{45}$$
$$25x = 54,000$$
$$x = 2,160$$

REF: 081032ia