Algebra 1 ECA Remediation

Name Answer Key

below shows Patricia's distance from home

2) Patricia drove her car to work. The graph

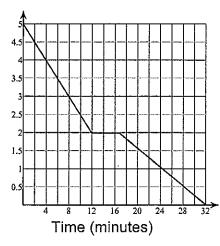
over time.

Homework 8.3

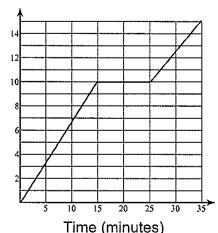
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1) Sally rode her bike home from school. The graph below shows Sally's distance from home over time.

Sally's Bike Ride Home



Distance (miles)



Patricia's Drive to School

3) On what time interval is Sally traveling at 15

Speed = $\frac{3miles}{12min} = \frac{3miles}{1/5hr} = \left(3miles\right)(5)$ (first 12 minutes) = 15 miles/hr

5) On what time interval is Sally stopped?

(12 min to 17 minutes)

4) On what time interval is Patricia traveling at

Speed = 10 miles = 10 miles = (10 miles) 4 (first 15 minutes) = 40 mph 6) On what time interval is Patricia stopped?

(15min to 25min)

7) On what time interval is Sally traveling the fastest? (first 12 minutes)

Stapest line

8) On what time interval is Patricia traveling the fastest?

(first 15 minutes)

Find the slope of the line through each pair of points.

9) (-10, 9), (16, -7)

$$m = \frac{9++7}{-10-16}$$

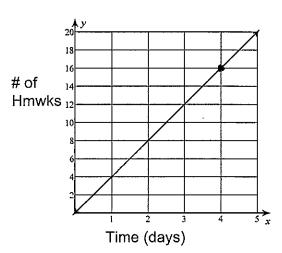
 $=\frac{16}{-26}=\frac{8}{-13}$

10) (9, 17), (18, -9)

 $m = \frac{17+9}{9-18} = \frac{26}{-9}$

11) The graph below represents the total number of times a student is given a homework assignment over a 5 - day period.

Homework Assigned



13) What is the slope of this line segment.
Include the appropriate units in your answer.

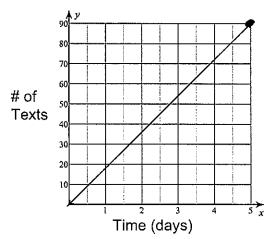
15) Write an equation that represents the total number of Homework Assignments, H, are given after, d, days.

$$H = 4d$$

17) If this trend continues, how many homework assignments will this student be given 15 days?

12) The graph below represents the total number of times a text message is received by a teenage boy over a 5 - day period.

Text messages Received



14) What is the slope of this line segment.

Include the appropriate units in your answer.

16) Write an equation that represents the total number of text messages, T, are received after, d, days.

18) If this trend continues, how many text messages will be received in 10 days?

Answers to Homework 8.3

5) 12 minutes to 17 minutes

8) During the first 15 minutes

3) The first 12 minutes

4) The first 15 minutes

6) 15 minutes to 25 minutes

7) During the first 12 minutes

9) $-\frac{8}{13}$

10) $-\frac{26}{9}$

13) $\frac{4}{1}$ Homework Assignments per Day

15) H = 4d

16) T = 18d

17) 60 homeowrk assignments

14) $\frac{18}{1}$ Text Messges per Day

18) 180 Text Messages