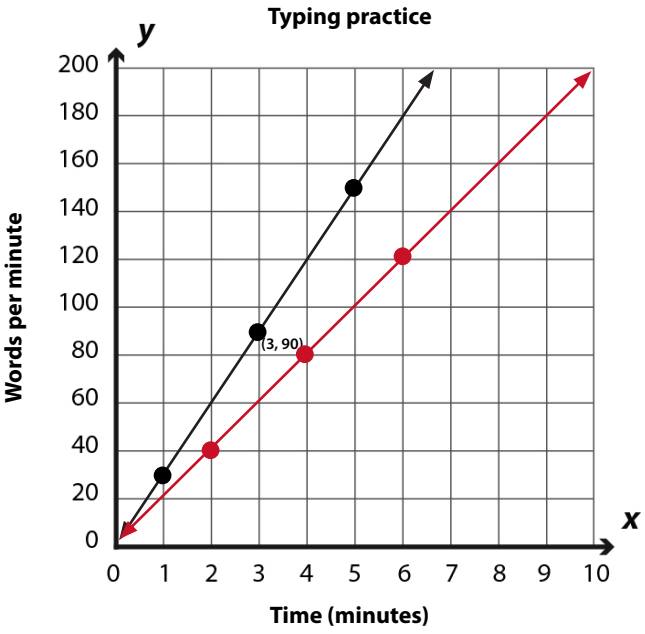
Name _____ Date _____ Period _____

8.EE.B.5 ADDITIONAL PRACTICE

Answer Key

Use the graph at the right to answer questions 1-3.



1) Determine the slope of the graph. State the unit rate in the context of the problem.

30; 30 words per minute

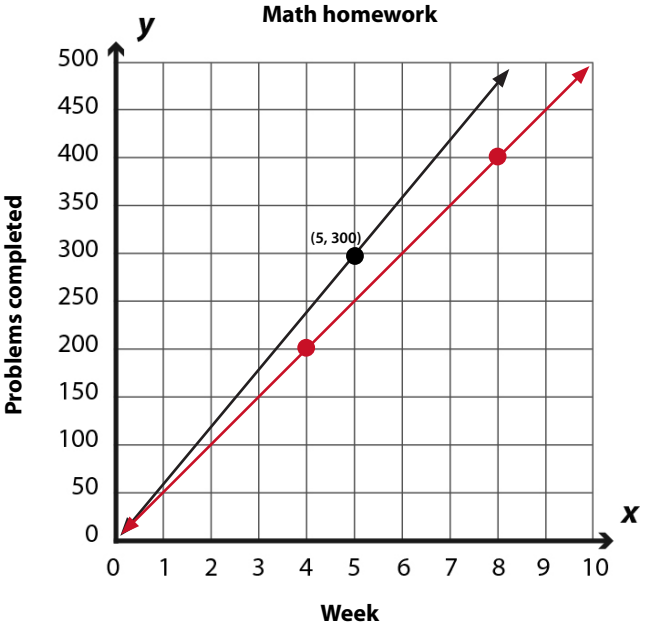
2) Jenny typed 40 words in 2 minutes. Graph the line that represents Jenny's typing speed. State the unit rate in the context of the problem.

Jenny types 20 words per minute.

3) The equation $y = 35x$ represents the relationship between the number of words David types (y) and the number of minutes he spends typing (x). Who types faster, Jenny or David?

David

Use the graph at the right to answer questions 4-5.



4) Determine the slope of the graph. State the unit rate in the context of the problem.

60; 60 problems completed each week

5) An 8th grader completed 200 problems by Week 4. Graph the line that represents this proportional relationship on the graph. State the unit rate in the context of the problem.

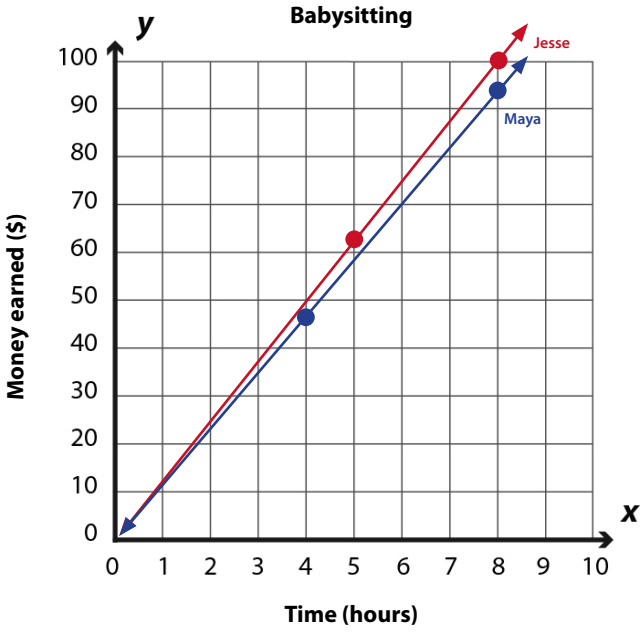
50 problems completed each week

Name _____ Date _____ Period _____

8.EE.B.5 ADDITIONAL PRACTICE (cont'd) Answer Key

Use the information below to answer Questions 6-10.

Three friends, Maya, Jesse, and Sam work separately as babysitters after school. There is a proportional relationship between the hours each student spends baby-sitting (x) and the amount of money earned (y).



6) After 4 hours of babysitting, Maya earned $47. Graph and label the line that represents the money Maya earned over time. State the unit rate in the context of the problem.

Maya earns $11.75 for every hour she babysits.

7) The equation $y = 12.5x$ represents the relationship between the money earned (y) and hours that Jesse babysits (x). Graph and label Jesse's earnings over time above.

See graph above.

8) Who has a cheaper hourly rate, Maya or Jesse?

Maya

9) Sam's babysitting earnings are reflected in the table to the right. Determine the unit rate.

Time (hours)	3	6	9
Money earned ($)	$36.75	$73.50	$110.25

$12.25 per hour

10) Write an equation that could reflect another babysitter whose hourly rate is more expensive than Jesse's.

Answers may vary. The constant of proportionality, k, in the equation $y = kx$ must be greater than $12.50. For example: $y = 12.75x$, $y = 13x$, $y = 13.5x$, etc.