

Activator

Samantha has a commission job. She makes \$400 (B) each week plus \$25 per tool kit (M). If she sold 7 tool kits this week, how much money did she make?

$$Y = 25X + 400$$

$$Y = 25(7) + 400$$

$$Y = 175 + 400$$

$$Y = \$575$$

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Lesson 4.6

She made
\$575
this week.

Today's Objective

Unit 4
Lesson 6

Students will be able to
solve words problems.





Today's New Vocab (1A of 4)

Uber charges \$3 a ride plus \$2 per mile.

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Lesson 4.6

Write an equation and make a table.

Per (Mile)

$$M = \$2$$

Beginning

$$B = \$3$$

$$Y = MX + B$$

$$Y = \$2X + \$3$$

X (miles)	Y (Cost)
0	\$3
1	\$5
2	\$7
3	\$9

How much does it cost to go 3 miles?

Today's New Vocab (1B of 4)

How much does it cost to go 9 miles?

$$Y = \$2X + \$3$$

$$Y = \$2(9) + \$3$$

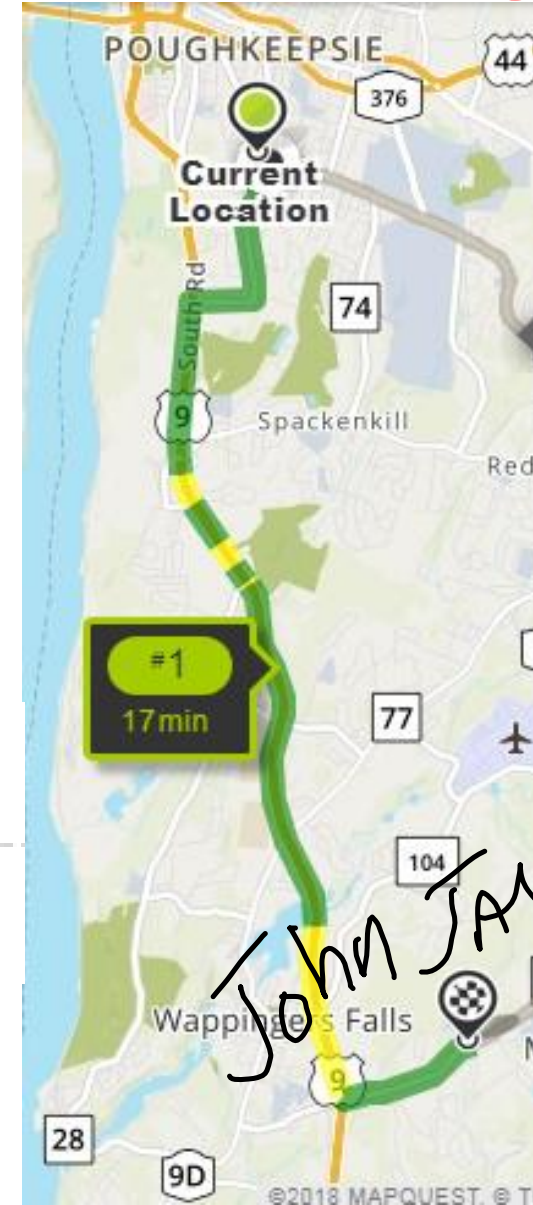
$$Y = \$18 + \$3$$

$$Y = \$21$$

X (miles)	Y (Cost)
9	\$21

via US-9 S

17min 8.8mi 



It costs \$21 to go 9 miles.

Today's New Vocab (2 of 4)

Tina wants to buy lunch for her friends. She needs to buy 3 pizzas. If the pizzas cost \$7 each and \$4 delivery fee.

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$$Y = MX + B$$

$$Y = 7X + 4$$

$$Y = 7(3) + 4$$

$$Y = 25$$

Tina needs \$25.

Today's New (3 of 4)

How much money was earned per hour? \$6.25

Which variable is this? M

$$Y = MX + B$$

$$Y = \frac{25}{4}X + B$$

$$Y = \$6.25X + B$$

Number of Hours (h)	Dollars Earned (d)
8	\$50.00
15	\$93.75
19	\$118.75
30	\$187.50

4

\$25

Today's New (4 of 4)

If she worked 80 hours in two weeks,
how much money would she get?

$$Y = \$6.25X + B$$

$$Y = \$6.25(80) + 0$$

$$Y = \$6.25(80) + 0$$

$$Y = \$500$$

Number of Hours (h)	Dollars Earned (d)
8	\$50.00
15	\$93.75
19	\$118.75
30	\$187.50

Work Period

Alex is selling tickets to a school play. Adult tickets cost \$7. Alex's mom wants to go, but she has to work. **Per (Ticket)** Beginning

So, she donates \$10. $M = \$7$ $B = \$10$

Write an equation

$$Y = MX + B$$

$$Y = \$7X + \$10$$

Group Work Questions

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Lesson 4.6

Directions: All groups, please do all of the questions. Use your notes from last class to help you. [Ask 2 people before you ask me.]

ABSENT WORK IS DUE TOMORROW.

Thursday, we did Lesson 4.6 Notes.

1st Stop @ 8:16

*One person from each group will present one question.

Exit Ticket

Alex sold 20 tickets to the play.

Adults were \$7. Mom donated \$10.

How much money did he raise?

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Lesson 4.6

$$Y = MX + B$$

$X = \#$ of tickets

$$Y = \$7(\$20) + \$10$$

$$Y = \$140 + \$10$$

Alex has
\$150 from
ticket sales.

$$Y = \$150$$



Lesson 4.6 Game

Earn \$1 for
each question
you ask.

- Write any of the equations.
(earn \$3 each)
- Then, substitute to answer part B.
(earn \$2 each)

If the ENTIRE group finishes a question (A & B),
Spin the prize wheel \$5 or \$10