Statistics & Probability
Task Cards 8.SP.3

20 Task Cards, Recording Sheet, Answer Sheet

8.SP.3

Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.

17 The following graph shows the amount of money Emma has in her savings account. The equation represented by this graph is $y = 5x + 50$.

What does the slope represent?

18 The following graph shows the amount of money Emma has in her savings account. The equation represented by this graph is $y = 5x + 50$.

What does the y – intercept represent? Be specific!

8.SP.3

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How many weeks will it take for Emma to have $100 in her account?

8.SP.3

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8.SP.3

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8.SP.3

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8.SP.3

Created by:

8.SP.3

Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.

1 Which of the following equations about data could represent a negative linear association?

A. $y = -x + 4$
B. $y = 4x - 1$
C. $-y = 0.5x - 5$
D. $-y = -3x + 4$

8.SP.3

2 Which of the following equations about data could represent a positive linear association?

A. $y = 3x + 4$
B. $-2y = -4x - 1$
C. $-y = 5x - 5$
D. $y = -x + 4$

8.SP.3

3 Which of the following equations about data could represent a negative linear association?

A. $y = 8x + 1$
B. $y = -4x + 2$
C. $-y = x - 5$
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8.SP.3

4 Which of the following equations about data could represent a positive linear association?

A. $y = -2x - 5$
B. $y = 1.8x - 1$
C. $-y = 7x + 1$
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8.SP.3

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Jackson recorded the growth of a plant over 10 weeks. The equation $y = 0.25x + 4$ represent the height (y) in inches over the time (x) in weeks. What does the slope represent in terms of the situation?

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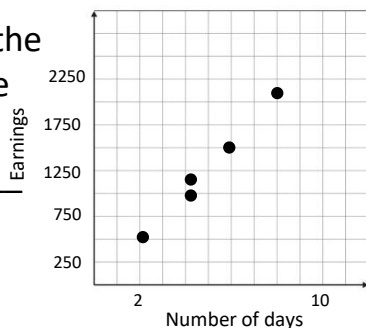
8.SP.3

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Jackson recorded the growth of a plant over 10 weeks. The equation $y = 0.25x + 4$ represent the height (y) in inches over the time (x) in weeks. How tall will the plant be after 12 weeks?

8.SP.3

9

The scatterplot shows the earnings a landscaper makes depending on how many days the job took him.

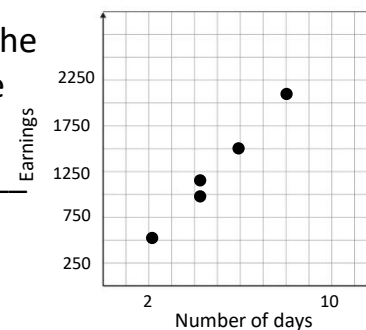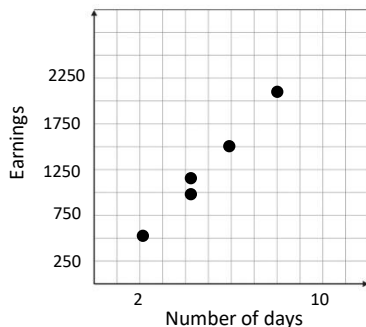How much money will the landscaper make if he works for:

3 days: _____

Earnings vs. Number of days

8.SP.3

10

The scatterplot shows the earnings a landscaper makes depending on how many days the job took him.

How much money will the landscaper make if he works for:

12 days: _____

Earnings vs. Number of days

8.SP.3

11

The scatterplot shows the earnings a landscaper makes depending on how many days the job took him.

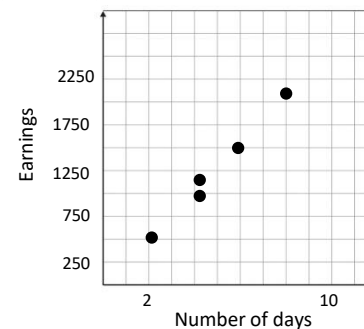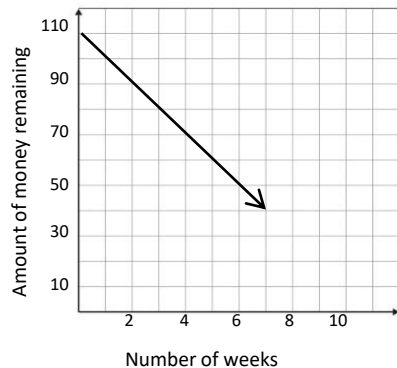Explain what the slope represents in terms of the landscaper and his job.

Earnings vs. Number of days

8.SP.3

12

The scatterplot shows the earnings a landscaper makes depending on how many days the job took him.

Explain what the y – intercept means in terms of the landscaper and his job.

Earnings vs. Number of days

8.SP.3

13

The following graph shows the amount of money Emma has in her savings account. The equation represented by this graph is $y = -10x + 110$.

Amount of money remaining

110
90
70
50
30
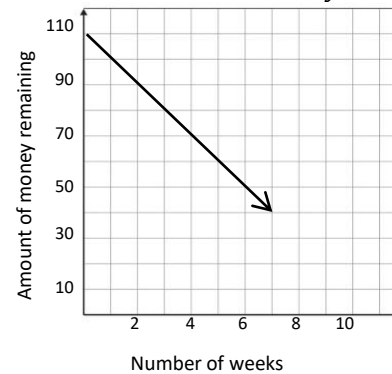10

2   4   6   8   10

Number of weeks

What does the slope represent? Be specific!

8.SP.3

14

The following graph shows the amount of money Emma has in her savings account. The equation represented by this graph is $y = -10x + 110$.
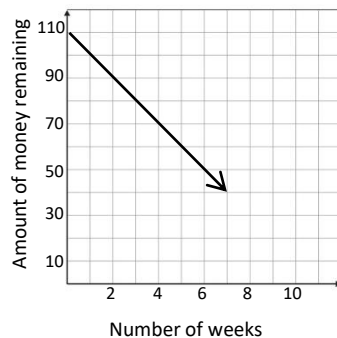
Amount of money remaining

110
90
70
50
30
10

2   4   6   8   10

Number of weeks

What does the $y - $ intercept represent? Be specific!

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Amount of money remaining

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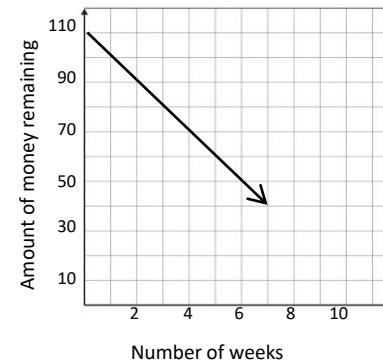10

2   4   6   8   10

Number of weeks

How much money will Emma have in her account after 10 weeks?

8.SP.3

16

The following graph shows the amount of money Emma has in her savings account. The equation represented by this graph is $y = -10x + 110$.

Amount of money remaining

110
90
70
50
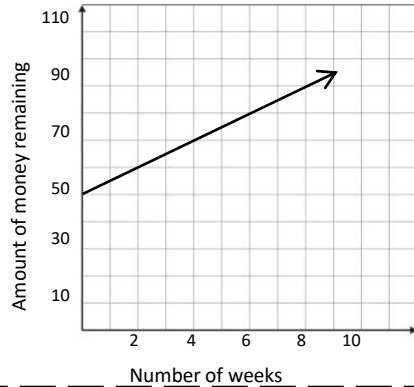30
10

2   4   6   8   10

Number of weeks

At how many weeks will Emma have $50 in her account?

8.SP.3

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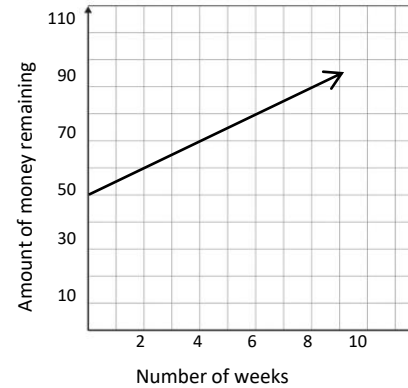
Amount of money remaining

110
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2   4   6   8   10

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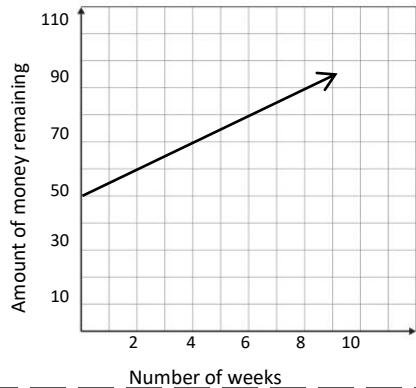Amount of money remaining

110
90
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110
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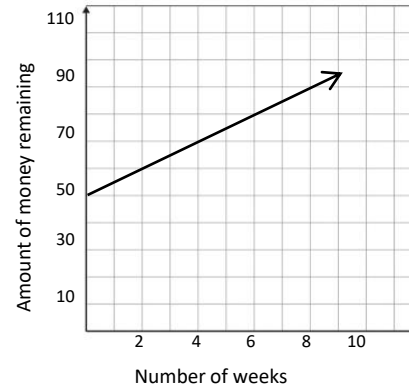70
50
30
10

2   4   6   8   10

Number of weeks

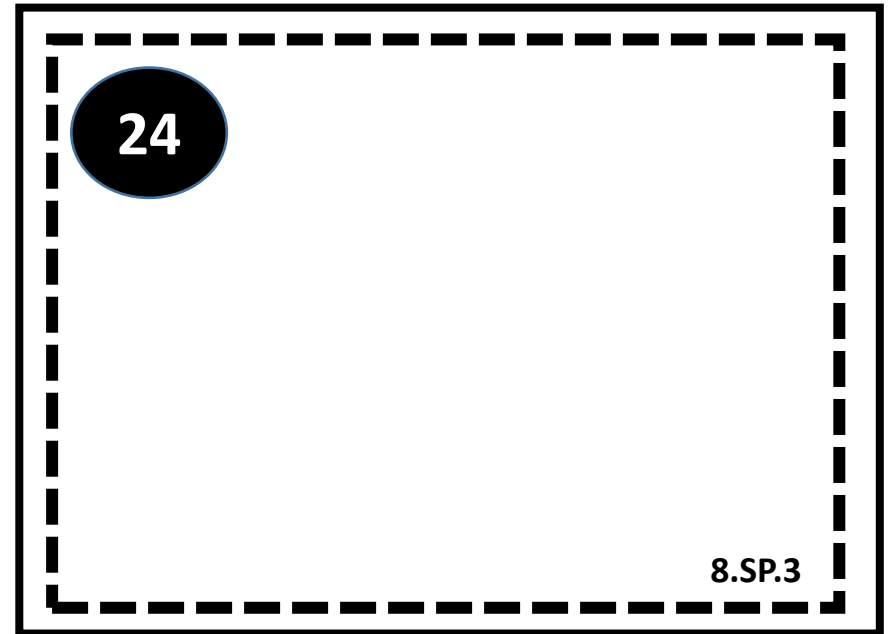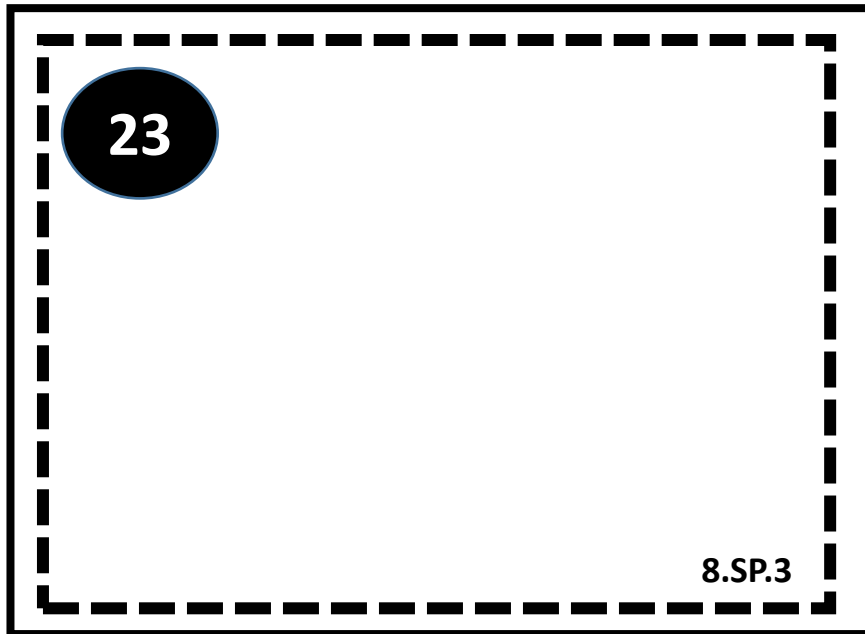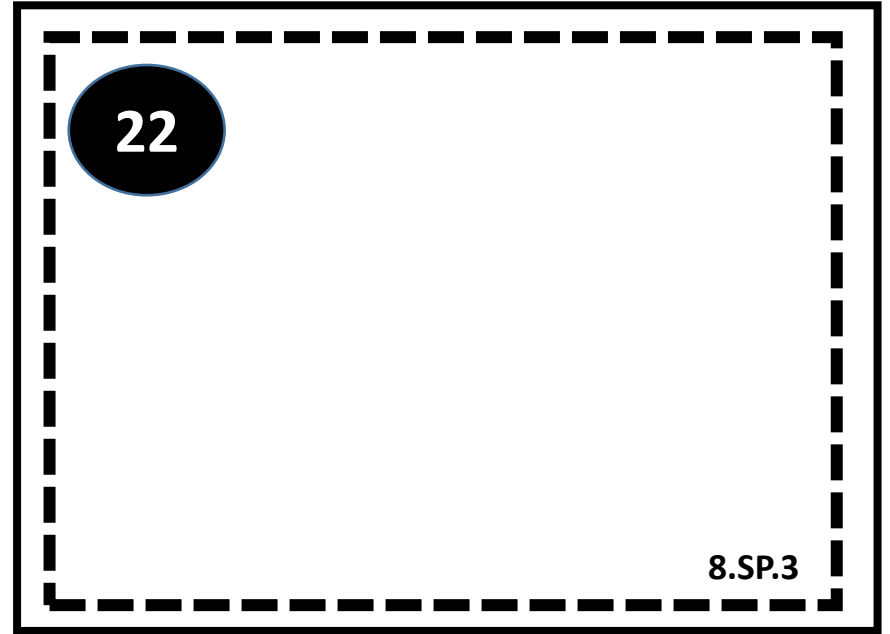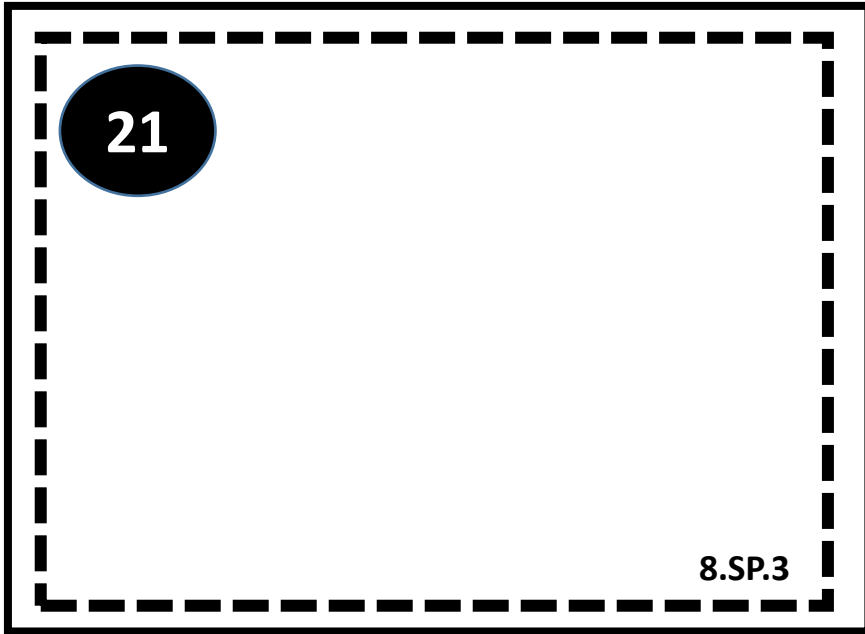How much money will Emma have in her account after 30 weeks?

8.SP.3

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Amount of money remaining

110
90
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30
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2   4   6   8   10

Number of weeks

How many weeks will it take for Emma to have $100 in her account?

8.SP.3

21

8.SP.3

22

8.SP.3

23

8.SP.3

24

8.SP.3

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8.SP.3

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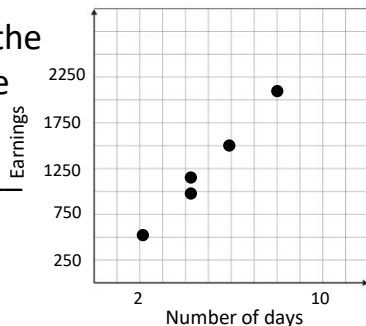
8.SP.3

9

The scatterplot shows the earnings a landscaper makes depending on how many days the job took him.

How much money will the landscaper make if he works for:

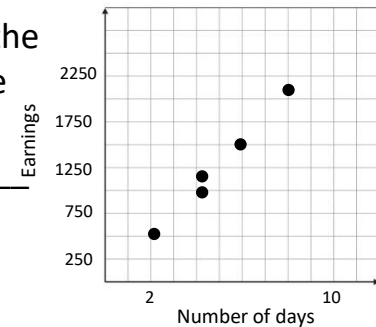3 days: _____

Earnings / Number of days

2 | 10

8.SP.3

10

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How much money will the landscaper make if he works for:

12 days: _____

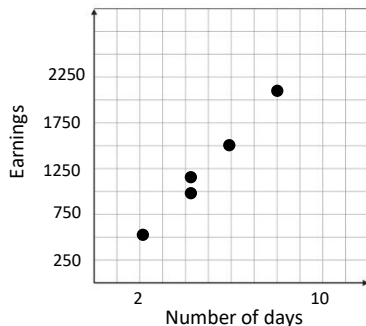Earnings / Number of days

2 | 10

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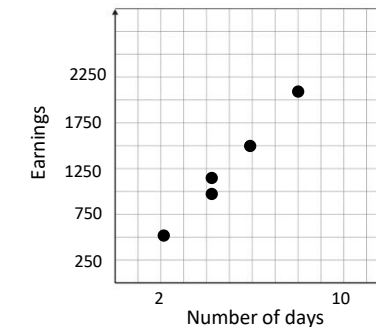Explain what the slope represents in terms of the landscaper and his job.

Earnings / Number of days

2 | 10

8.SP.3

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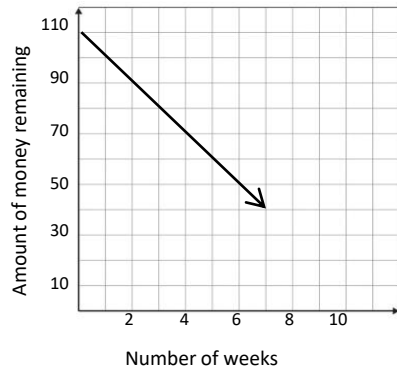Explain what the y – intercept means in terms of the landscaper and his job.

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8.SP.3

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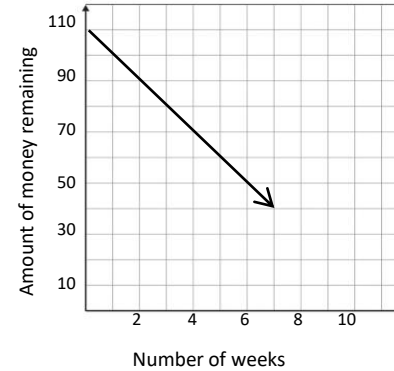2   4   6   8   10

Number of weeks

What does the slope represent? Be specific!

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Amount of money remaining

110
90
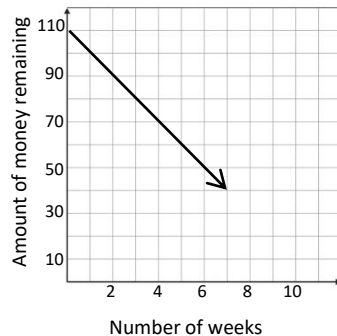70
50
30
10

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Number of weeks

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Amount of money remaining

110
90
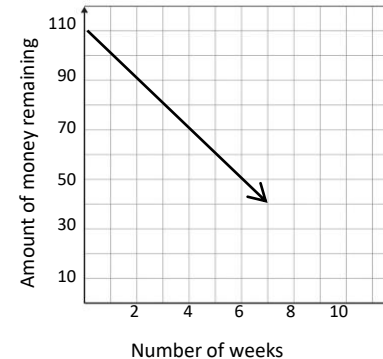70
50
30
10

2   4   6   8   10

Number of weeks

How much money will Emma have in her account after 10 weeks?

8.SP.3

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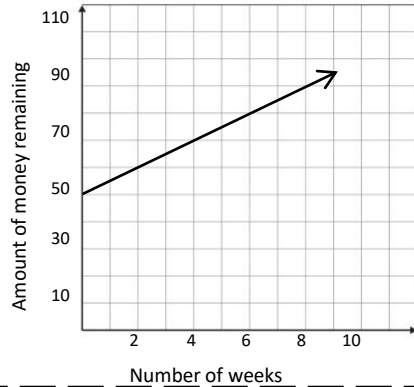
Amount of money remaining

110
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30
10

2   4   6   8   10

Number of weeks

At how many weeks will Emma have $50 in her account?

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The following graph shows the amount of money Emma has in her savings account. The equation represented by this graph is $y = 5x + 50$.

Amount of money remaining

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Number of weeks

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Amount of money remaining

110
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2   4   6   8   10

Number of weeks

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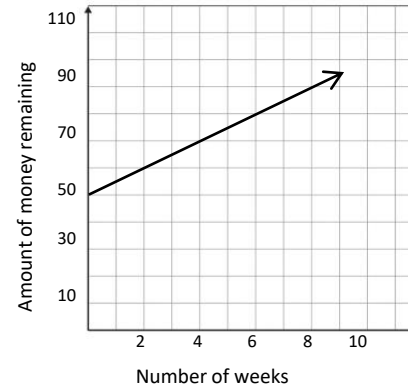
Amount of money remaining

110
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2   4   6   8   10

Number of weeks

How much money will Emma have in her account after 30 weeks?

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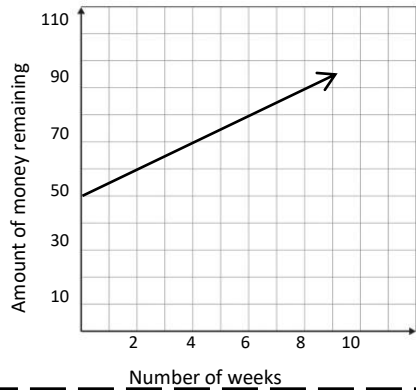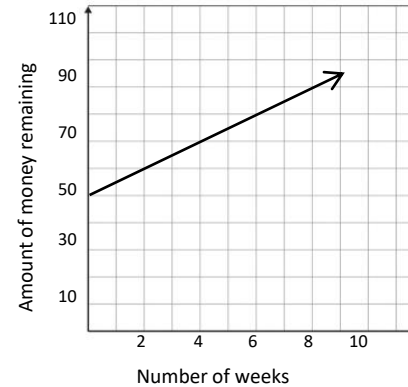
Amount of money remaining

110
90
70
50
30
10

2   4   6   8   10

Number of weeks

How many weeks will it take for Emma to have $100 in her account?

8.SP.3

21

8.SP.3

22

8.SP.3

23

8.SP.3

24

8.SP.3

8.SP.3 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	

Answer Key

Number	Answer
1	A and C
2	A and B
3	B and C
4	B and D
5	How much the plant grows each week
6	Starting height of the plant
7	5.25 inches
8	7 inches
9	Around $750
10	Around $3,000

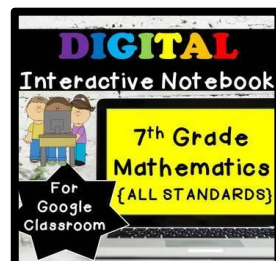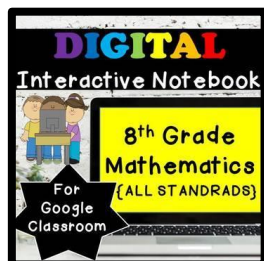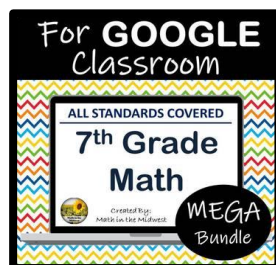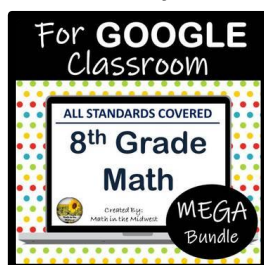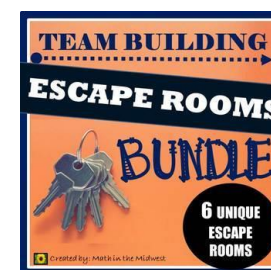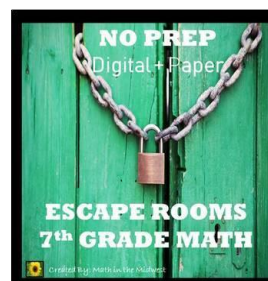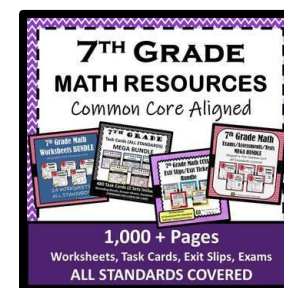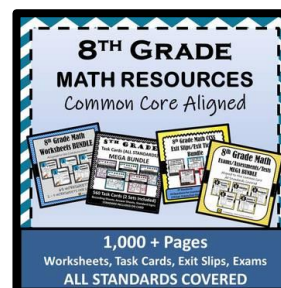| Number	Answer
11	Amount of money earned per days worked
12	$0 if he doesn't work he makes no money
13	Money Emma is losing each week
14	Money Emma started with
15	$10
16	6 weeks
17	Money Emma is putting in her bank account each week
18	Money Emma started with in her account
19	$200
20	10 weeks

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