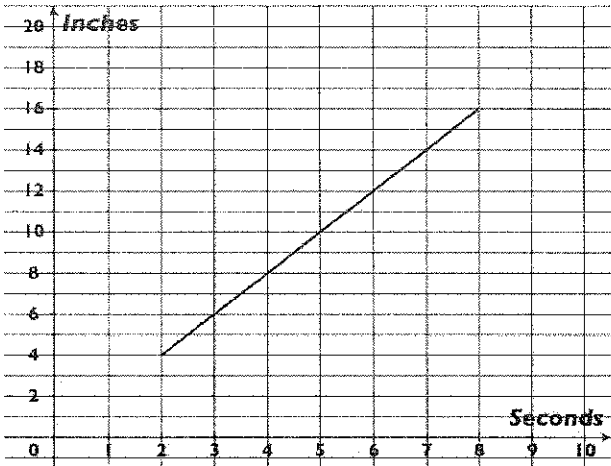
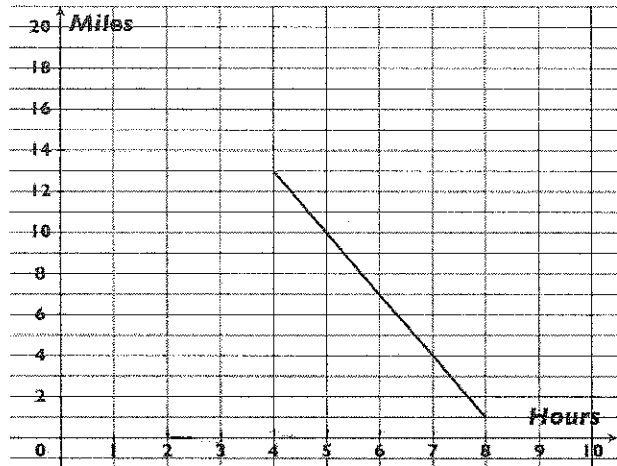


Find the rate of change of each graph. Include units.

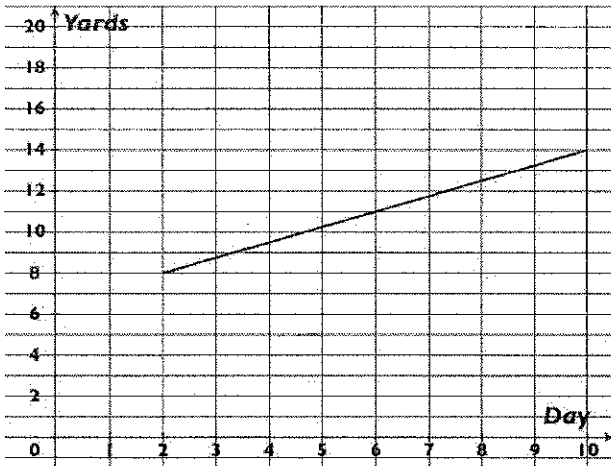
1.



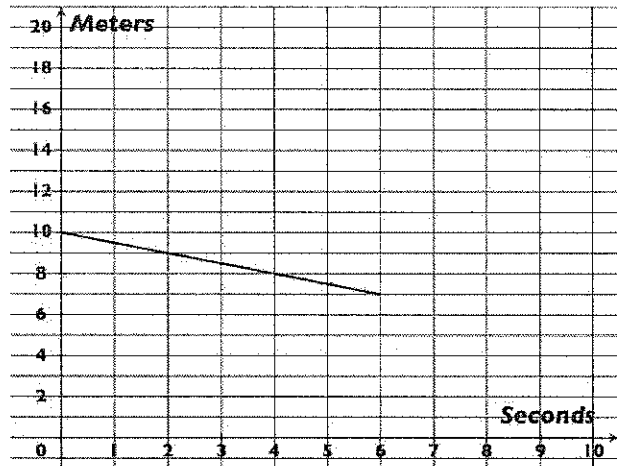
2.



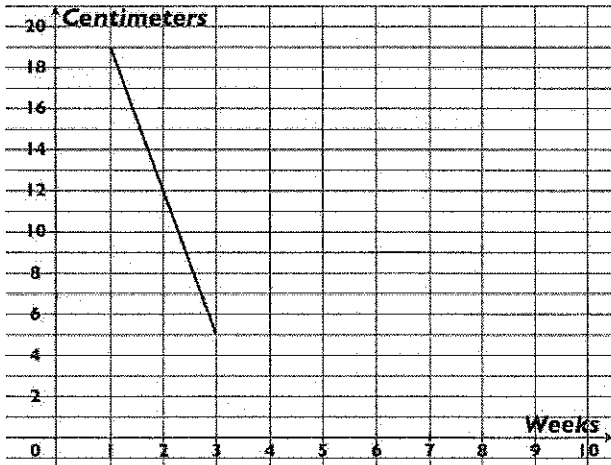
3.



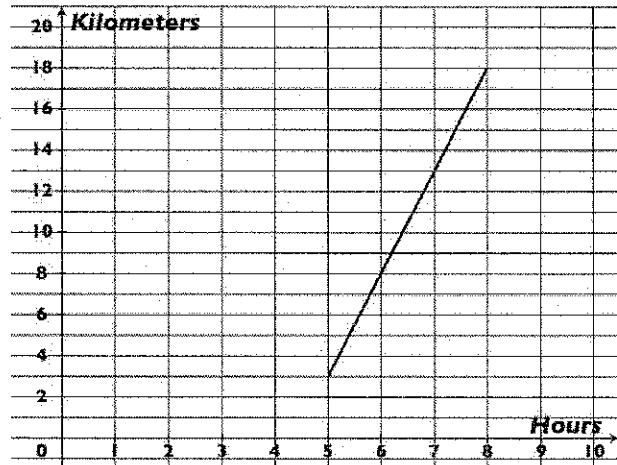
4.



5.



6.



Graphing Situations Practice

Basic Level

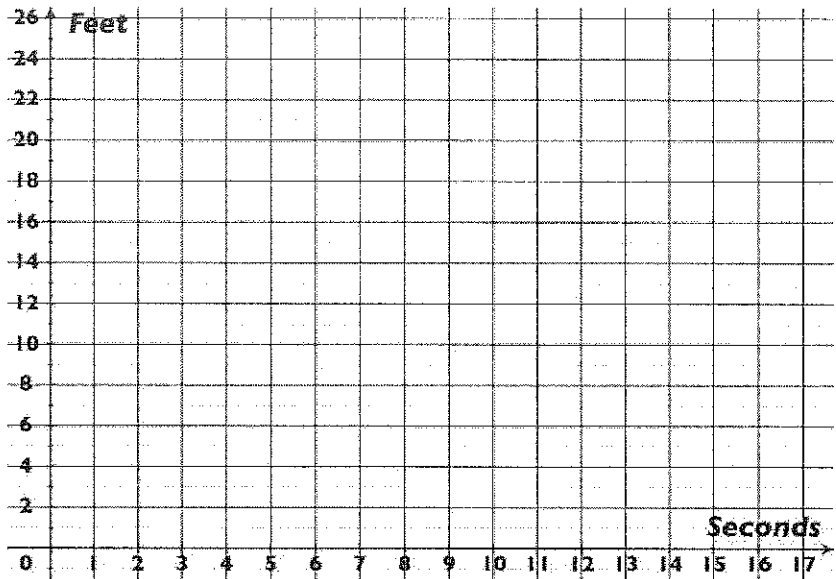
1. Alexandria started at the 4-foot line. She ran up toward the finish line at a rate of 2 ft/s.

Write an equation:

$$F = \underline{\quad} + \underline{\quad}$$

Make a data table and graph:

S	F
0	
1	
2	
3	
4	
5	



How far will Alexandria be after: **8 seconds?**

11 seconds?

60 seconds?

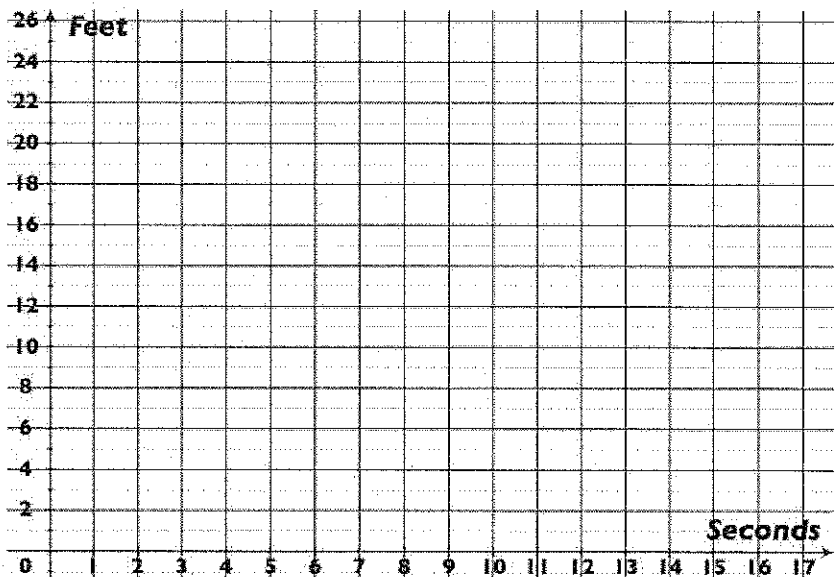
2. Stephanie started at the 10-foot line. She walked up toward the finish line at a rate of $\frac{1}{2}$ ft/s.

Write an equation:

$$F = \underline{\quad} + \underline{\quad}$$

Make a data table and graph:

S	F
0	
1	
2	
3	
4	
5	



How far will Stephanie be after: **9 seconds?**

14 seconds?

80 seconds?

Name:

Date:

What is this lesson about?

Review

Mistakes to Avoid

Core Lesson (*Write or Draw Pictures*)

Guided Practice Notes (before seeing teacher demonstrate)

Name:

Date:

What is this lesson about?

Review

Mistakes to Avoid

Core Lesson (*Write or Draw Pictures*)

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Name:

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Name:

Date:

What is this lesson about?

Review

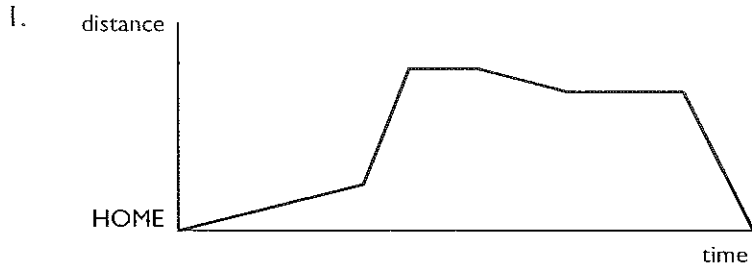
Mistakes to Avoid

Core Lesson (*Write or Draw Pictures*)

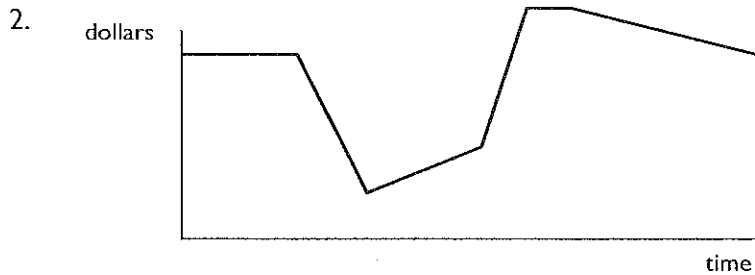
Guided Practice Notes (before seeing teacher demonstrate)

Skills Test #6 Most Missed Concepts

Interpreting a Graph: Match the appropriate letter to each section of the graph.

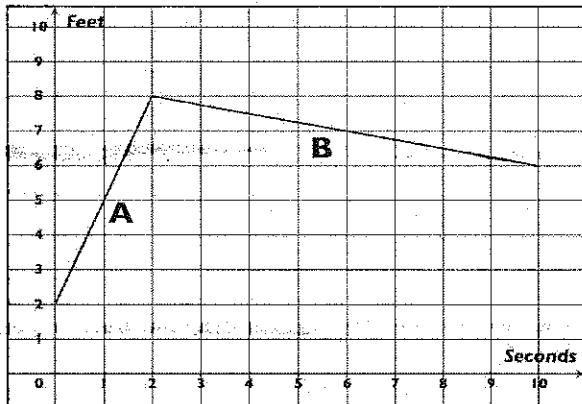


- A = Stopping for a shorter time
- B = Driving away from home quickly
- C = Driving home quickly
- D = Driving away from home slowly
- E = Stopping for a longer time
- F = Driving home slowly



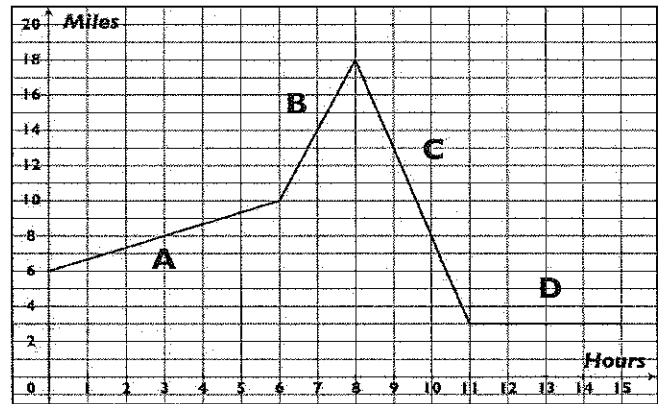
- A = Spending money quickly
- B = Not earning or spending for a short time
- C = Earning money slowly
- D = Not earning or spending for a long time
- E = Earning money quickly
- F = Spending money slowly

Calculating Rate of Change: Find the rate of change of each section of the graph. Include units.



A:

B:



A:

B:

C:

D:

Match Races with Their Equations

Equation	Situation
	Chippy the Cheatin' Chipmunk started at the 4-foot line, but jumped on a motorcycle and sped toward the finish line at a speed of 12 feet per second.
	Zippy the Zebra started the race at the 12-foot line, and ran at a rate of 4 feet per second up toward the finish line.
	The Tortoise got an 8-foot head start, and ran up at a rate of 3 feet per second toward the finish line.
	Chester the Cheetah started 3 feet from the starting line, and ran up toward the finish line at the amazing speed of 8 feet per second.
	Peter the Piñata started at the 3-foot line, and ran 8 feet per second down toward the starting line. Who knew piñatas could run so fast?
	Loopy the Loon started at the 5-foot line, and moved back down toward the starting line at a rate of $\frac{1}{2}$ foot per second.
	Billy the Badger started $\frac{1}{2}$ a foot away from the starting line and ran up toward the finish line at a rate of 5 feet per second.
	Franco the Freshman started with the Tortoise at the 8-foot line, but ran 3 feet per second down toward the starting line.
	The Hare started at the 12-foot line and ran down toward the starting line at a rate of 4 feet per second.
	Sammy the Snail had a 5-foot head start, but only ran toward the finish line at a rate of $\frac{1}{2}$ foot per second.

Equation Choices

A: $F = 8 + 3s$

B: $F = 12 - 4s$

C: $F = \frac{1}{2} + 5s$

D: $F = 3 + 8s$

E: $F = 12 + 4s$

F: $F = 5 + \frac{1}{2}s$

G: $F = 3 - 8s$

H: $F = 4 + 12s$

I: $F = 8 - 3s$

J: $F = 5 - \frac{1}{2}s$

Proficient Level

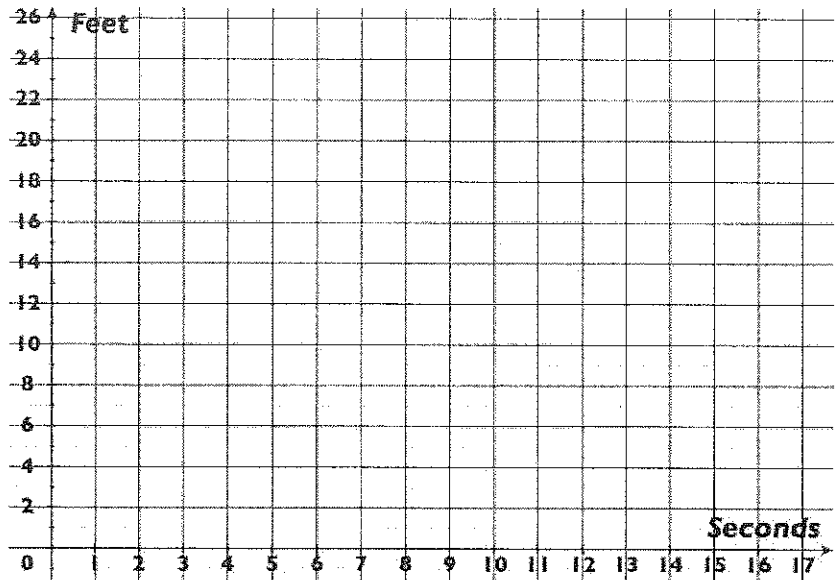
1. Daniela started at the 2-foot line. She ran **up** toward the **finish line** at a rate of 2.5 ft/s.

Write an equation:

$$F =$$

Make a data table and graph:

S	F
0	
1	
2	
3	
4	
5	



How far will Daniela be after: **8 seconds?**

28 seconds?

59 seconds?

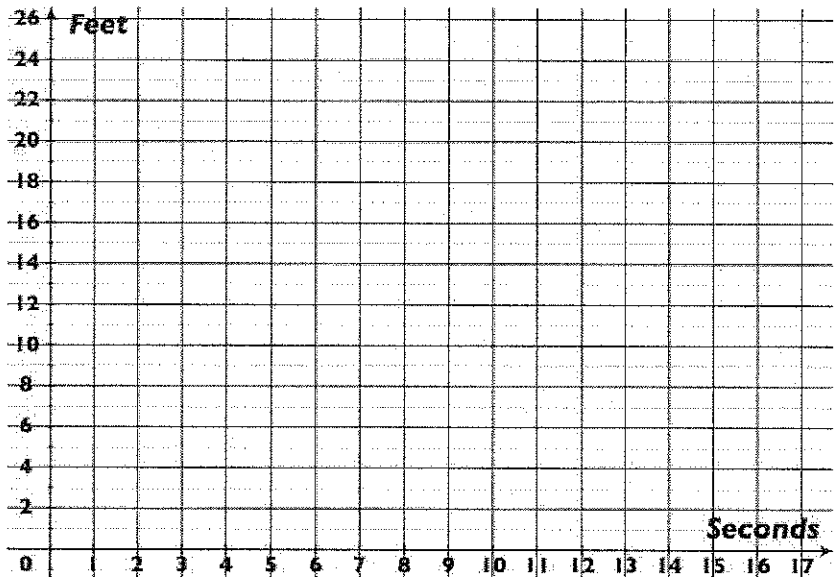
2. Cynthia started at the 24-foot line. She walked **down** toward the **starting line** at a rate of $\frac{1}{2}$ ft/s.

Write an equation:

$$F =$$

Make a data table and graph:

S	F
0	
1	
2	
3	
4	
5	



How far will Cynthia be after: **8 seconds?**

21 seconds?

48 seconds?

More Graphing Practice

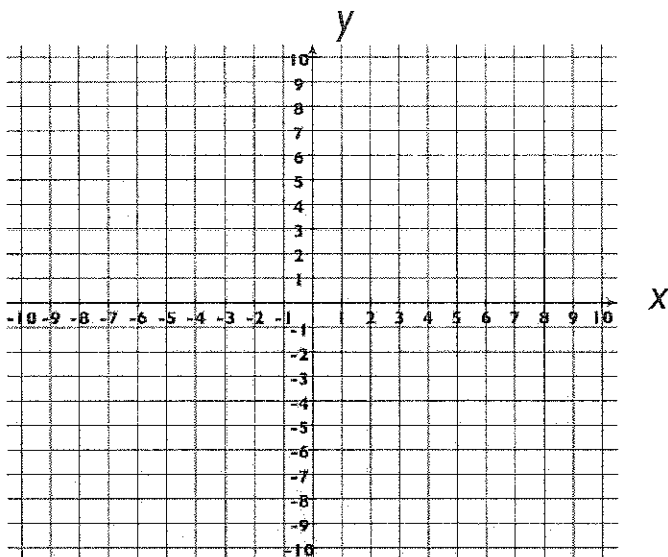
(Do Part A or Part B)

Part A

Complete the data table and graph the equation. Label the line with its equation.

$$y = 3 + \frac{1}{2}x$$

x	y
-4	
-2	
0	
2	
4	
6	
7	



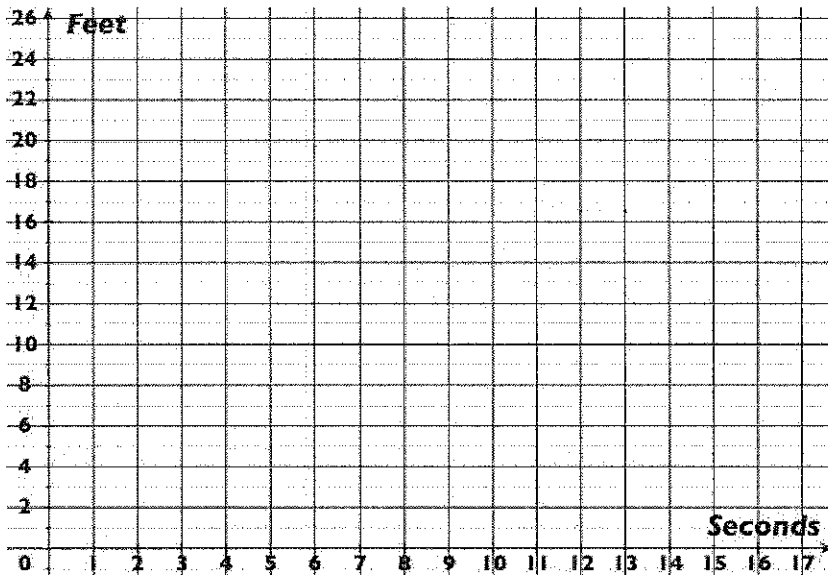
Albert started his race at the 8-foot line. He ran up toward the finish line at a rate of 3 feet per second.

Write an equation:

$$F = \underline{\quad} + \underline{\quad}$$

Make a data table and graph:

S	F
0	
1	
2	
3	
4	



How far will Albert be after:

6 seconds?

12 seconds?

42 seconds?

Part B

Gerelly started her race at the 2-foot line. She ran up toward the finish line at a rate of $\frac{3}{4}$ foot per second.

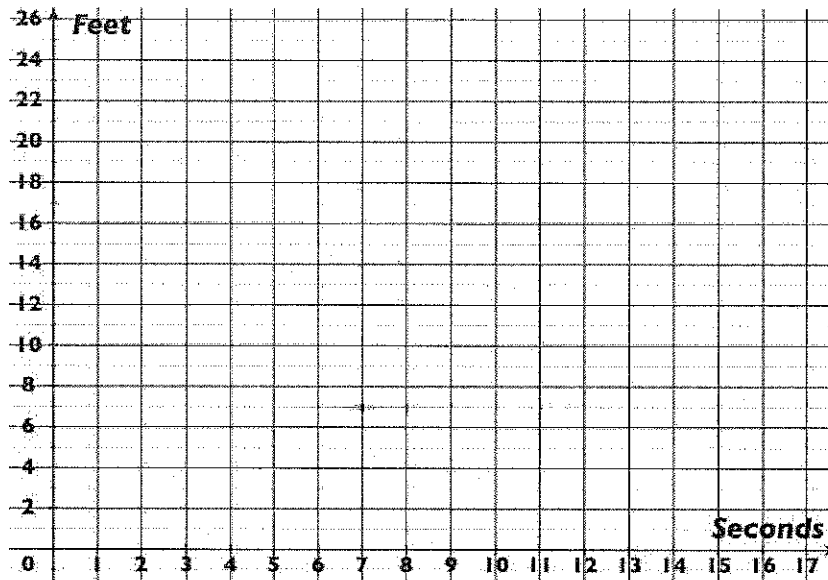
Write an equation:

F =

Make a data table and graph:

S	F
0	
2	
4	
6	
8	

S	F
10	
12	
14	
16	
17	



How far will Gerelly be after:

5 seconds?

60 seconds?

82 seconds?