Welcome to class!

1. Put your homework on your desk
2. Make a list of everything that we learned in Unit 4
3. Put a star next to the topics that are your strongest

Announcements

1. Unit 4 Test tomorrow!
2. Test Corrections due tomorrow!
3. Quarter 1 ends on Friday!

Homework Check

Page 277 # 16-17, 27-29, 30, 38-39

You can find the answers with my work on the front table!
Please check and make sure you understand!

Brainstorm Walk

Around the room, you see topics that were covered during Unit 4.

1. At your desk, write a connection to each topic on a sticky-note (a definition, an example, something you need to remember).
2. When I tell you to go, put your sticky-notes on the appropriate posters.
3. With a partner, walk around and see what everyone wrote on each poster. We will discuss as a class.

This unit followed Chapter 4 in the textbook directly!

Practice Test on Textbook Page 285

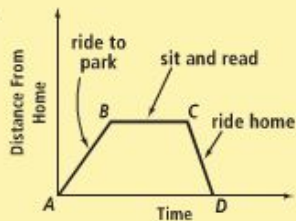Want additional help with any concepts? Check out that section and try some additional practice problems!

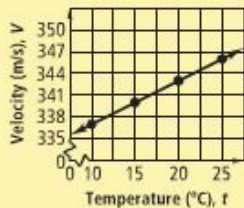(Hint: The odd problems have answers in the back of the book!)

Practice Test Answers
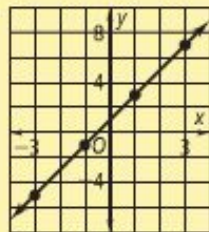
Answers

Chapter Test

1.

2. Temperature, velocity of sound; for every increase of 5°C, the velocity of sound increases by 3 m/s; $y = \frac{3}{5}x + 331$.
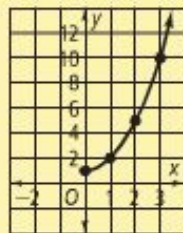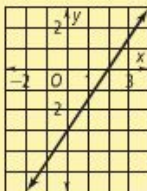

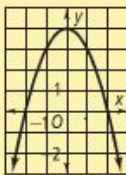
3.

linear

4.

nonlinear

5.

x	−2	−1	0	1	2
y	−6	−4.5	−3	−1.5	0

6.

x	−2	−1	0	1	2
y	0	3	4	3	0

7. domain: {−2, 3, 5, 8}, range: {5, 6, 12}; function

8. domain: {3, 4, 9}, range: {2, 6, 8, 9.5}; not a function

9. $A = 48 − 2b$; 24 tsp

10. domain {0, 1, 2, . . . , 12}, range {0, 2.47, 4.94, 7.41, . . . , 29.64}

11. {5, 1, −3, −6, −11}

12. {84, 24, 4, 15.25, 84}

13. −0.5, −5.5, −23

14. −6, 0, 21

15. No, because the sequence does not have a common difference.

16. Yes, because the sequence has a common difference. $A(n) = 3 + (n − 1)(0.25)$

17. continuous

18. discrete

19. Yes; a car travels at the average rate of 55 mi/h for 4 h.

20. A relation is a set of ordered pairs. A function is a relation that assigns exactly one output value to each input value. Not every relation is a function, but every function is a relation.