

## Lesson 1.1.2 Problems 1-13 thru 1-22

**1-13. See below:**

a.  $24 \div 1 = 24$  minutes;  $24 \div 2 = 12$  minutes

b.

<b>Speed (in blocks per minute)</b>	1	2	3	4	6	8	10	12	24
<b>Time to Get to Her Friend's House (in mins)</b>	24	12	8	6	4	3	2.4	2	1

c. The time decreases.

**1-14. See below:**

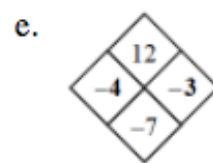
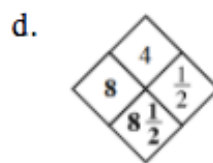
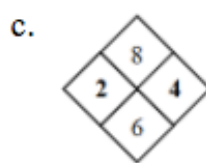
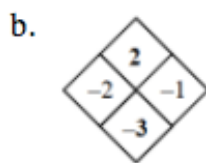
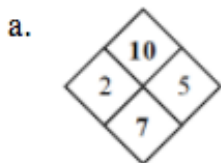
a. 11

b.  $\frac{5}{2}$

c. 22

d. 27

**1-15. See answers in bold in diamonds below.**



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**1-16. See below:**

- a.  $x = 0$
- b.  $x = \text{any number}$
- c.  $x = 14$
- d. no solution

**1-17. See below:**

- a.  $-\frac{5}{18}$
- b.  $-\frac{51}{35}$
- c.  $-\frac{3}{5}$
- d.  $\frac{7}{8}$

**1-18. See below:**

- a. \$18
- b. 8.4 gallons
- c. Typical response: The line would get steeper.

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1-19. See below:

a.  $x = -3$

b.  $x = 5$

c.  $x = \frac{2}{3}$

1-20. See below:

a.  $-8$

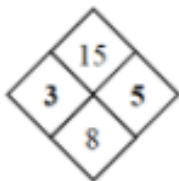
b.  $-56$

c.  $3$

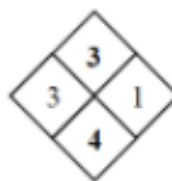
d.  $6$

1-21. See answers in bold in diamonds below:

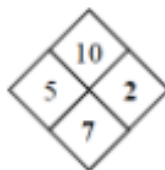
a.



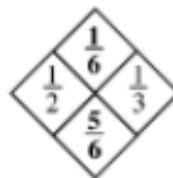
b.



c.



d.



1-22. See below:

a. Function A = 84, Function B = no solution

b. He cannot get an output of 0 with Relation A. He can get an output of 0 by putting a 4 in Function B.