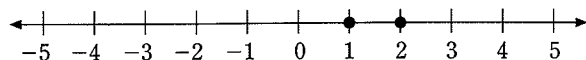


# Answer Key

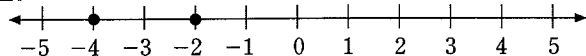
## Integers and Rational Numbers

### Card 1

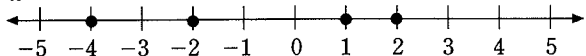
1.



2.



A.



### Card 2

1.  $-12$ ;  $(-12) + 5$
  2. negative; greater
  3.  $-16 + (-12) + 5$   
 $-28 + 5$   
 $-23$
- A.  $-23$

### Card 3

1. a positive number is multiplied or divided by a negative number
  2.  $15 \times 8 = 120$
  3. positive
- A. 120

### Card 4

1. exponents; multiply
  2.  $4 \cdot 4 = 16$ ;  
16
  3.  $17 + 16 \div 2 = 17 + 8$
  4.  $17 + 8 = 25$
- A. 25

### Card 5

2.  $48 - [24 \div (2 + 3 \times 2)]$   
 $48 - [24 \div (2 + 6)]$   
 $48 - [24 \div 8]$
  3.  $48 - 3$
  4.  $48 - 3 = 45$
- A. 45

### Card 6

1.  $-7 + 2(6 + -9)^3$   
 $-7 + 2(-3)^3$
2. The base is  $-3$  and the exponent is 3.
3.  $(-3)^3 = -3 \times -3 \times -3$   
 $= 9 \times -3$   
 $= -27$

4.  $-7 + 2(-27) =$   
 $-7 + (-54) = -61$
- A.  $-61$

### Card 7

1. a negative sign; a negative sign
  2.  $-10.790$   
 $+ 6.107$   
 $\hline -4.683$
  3.  $-4.683$   
 $+ -4.600$   
 $\hline -9.283$
- A.  $-9.283$

### Card 8

1. negative
  2.  $\frac{5}{8} + \frac{3}{4} = \frac{5}{8} + \frac{6}{8} = \frac{11}{8}$   
 $\frac{1}{3} - \frac{7}{12} = \frac{4}{12} - \frac{7}{12} = -\frac{3}{12}$
  3.  $\frac{11}{8} \div -\frac{3}{12} = \frac{11}{8} \cdot \left(-\frac{12}{3}\right)$
  4.  $\frac{11}{8} \cdot -\frac{12}{3} = \frac{11}{2} \cdot -\frac{1}{1} = -\frac{11}{2} = -5\frac{1}{2}$
- A.  $-5\frac{1}{2}$

### Card 9

1. Find the number of mileage signs along a  $7\frac{3}{4}$ -mile stretch of highway.
2. 5 signs;  
Multiply the number of signs in one mile by  $7\frac{3}{4}$ ;  
Drop the fraction. The number of mileage signs will be represented by the whole number.
3.  $7\frac{3}{4} \times 5 = \frac{31}{4} \times \frac{5}{1} = \frac{155}{4} = 38\frac{3}{4}$
4. The city highway patrol will post 38 signs.

## Introduction to Algebra

### Card 10

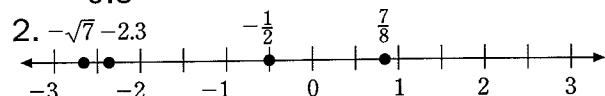
1. The Additive Identity Property and the Zero Property of Multiplication.
  2. The equation involves adding a number to zero.
- A. Additive Identity Property

**Card 11**

1. Reflexive Property; Substitution Property
  2. Possible answer: if one sum is equal to another sum, then the second sum is equal to the first sum.
- A. The Symmetric Property

**Card 12**

1. -2.6;  
0.875;  
-0.5



3.  $-\sqrt{7}$ , -2.3,  $-\frac{1}{2}$ ,  $\frac{7}{8}$

**Card 13**

1. 0; 1
  2.  $-\frac{2}{3}$
  3.  $\frac{3}{2}$
- A.  $-\frac{2}{3}$ ;  $\frac{3}{2}$

**Card 14**

1. 10
  2.  $6 + 10 = 16$
- A. 16

**Card 15**

1. less than; subtraction
2. it is impossible to tell; subtract 13 from the number
3.  $t - 13$

**Card 16**

1.  $n - \frac{mn}{4+k}$
  2.  $-6 - \frac{4(-6)}{4+(-1)}$
  3.  $-6 - \frac{-24}{3}$
  4.  $-6 - (-8)$
  5.  $-6 + 8 = 2$
- A. 2

**Card 17**

1.  $I = (750 - 250)r$ ;  
the amount of interest Kelly will pay;  
the interest rate
2.  $I = (750 - 250)r$

$$I = (750 - 250)0.055$$

$$I = (500)0.055 = 27.5$$

3. Kelly will pay \$27.50 in interest if the interest rate is 5.5%.

**Card 18**

1.  $-15jk^3 + 6jk^3 + 17jk - 8jk + 11 - 21$
  2.  $-9jk^3 + 9jk - 10$
- A.  $-9jk^3 + 9jk - 10$

**Card 19**

1.  $3 - 4y - 16 + 6y - 24$
  2.  $-4y + 6y + 3 - 16 - 24$
  3.  $2y - 37$
- A.  $2y - 37$

**Solve Linear Equations****Card 20**

1.  $14 = -7y + 9$
  2.  $14 = -7\left(-\frac{2}{3}\right) + 9$
  3.  $14 = \frac{14}{3} + 9$   
 $14 = 4\frac{2}{3} + 9$   
 $14 = 13\frac{2}{3}$
- A. is not

**Card 21**

1. addition; subtraction
  2.  $\frac{2}{3} - \frac{2}{3} + x = \frac{5}{9} - \frac{2}{3}$
  3.  $0 + x = \frac{5}{9} - \frac{6}{9}$   
 $x = -\frac{1}{9}$
  4.  $\frac{2}{3} + \left(-\frac{1}{9}\right) = \frac{5}{9}$   
 $\frac{6}{9} - \frac{1}{9} = \frac{5}{9}$   
 $\frac{5}{9} = \frac{5}{9}$
- A.  $x = -\frac{1}{9}$

**Card 22**

1. division; multiplication
  2.  $3.6 \left(\frac{y}{3.6}\right) = (5)3.6$
  3.  $y = 18$
  4.  $\frac{18}{3.6} = 5$   
 $5 = 5$
- A. 18

**Card 23**

$$2. -4.3y + 7 = 11.3$$

$$-4.3y + 7 - 7 = 11.3 - 7$$

$$-4.3y = 4.3$$

$$3. \frac{-4.3y}{-4.3} = \frac{4.3}{-4.3}$$

$$y = -1$$

$$4. -4.3(-1) + 7 = 11.3$$

$$4.3 + 7 = 11.3$$

$$11.3 = 11.3$$

A. -1

**Card 24**

1. numerical terms	variable terms
$-\frac{1}{5} \quad \frac{2}{5} \quad \frac{3}{5}$	$-5n \quad 7n$

$$\left(-\frac{1}{5} + \frac{2}{5}\right) + (-5n + 7n) = \frac{3}{5}$$

$$2. \frac{1}{5} + 2n = \frac{3}{5}$$

$$3. \frac{1}{5} - \frac{1}{5} + 2n = \frac{3}{5} - \frac{1}{5}$$

$$2n = \frac{2}{5}$$

$$\frac{2n}{2} = \frac{2}{5} \div 2$$

$$n = \frac{2}{5} \times \frac{1}{2} = \frac{1}{5} \times \frac{1}{1} = \frac{1}{5}$$

A.  $\frac{1}{5}$

**Card 25**

$$1. [-3 + z]$$

$$2. 5[-3 + z] = 2(9 + z)$$

$$-15 + 5z = 18 + 2z$$

$$3. -15 + 5z = 18 + 2z$$

$$-15 + 5z - 2z = 18 + 2z - 2z$$

$$-15 + 3z = 18$$

$$-15 + 15 + 3z = 18 + 15$$

$$3z = 33$$

$$4. 3z = 33$$

$$\frac{3z}{3} = \frac{33}{3}$$

$$z = 11$$

A. 11

**Card 26**

$$1. \frac{x-y}{-9} = \frac{x+2y}{6}$$

$$6(x-y) = -9(x+2y)$$

$$2. 6x - 6y = -9x - 18y$$

$$3. 6x - 6x - 6y = -9x - 6x - 18y$$

$$-6y = -15x - 18y$$

$$-6y + 18y = -15x - 18y + 18y$$

$$12y = -15x$$

$$\frac{12y}{12} = \frac{-15x}{12}$$

$$y = -\frac{15x}{12} \text{ or } -\frac{5x}{4}$$

A.  $-\frac{5x}{4}$

**Card 27**

1. multiply or divide

2. 200; 2

3. 200; 2; 6

$$4. a_n = a_1 r^{n-1}$$

$$a_n = 200(2^{6-1})$$

$$a_n = 200(2^5)$$

$$a_n = 200(32)$$

$$a_n = 6400$$

5. The value of the bond in 5 years will be \$6400.

**Card 28**

$$1. 88 \times 4 = 352$$

$$2. 90 \times 5 = 450$$

$$3. 450 - 352 = 98; 98\%$$

**Card 29**

$$1. 2 \times 5;$$

$$2^2 \times 3;$$

$$2^2 \times 3 \times 5 = 4 \times 3 \times 5 = 60$$

$$2. 60\left(12 + \frac{3}{10}a = \frac{5a+6}{12}\right)$$

$$720 + 18a = 5(5a + 6)$$

$$3. 720 + 18a = 25a + 30$$

$$720 + 18a - 18a = 25a - 18a + 30$$

$$720 = 7a + 30$$

$$720 - 30 = 7a + 30 - 30$$


$$690 = 7a$$

$$\frac{690}{7} = \frac{7a}{7}$$

$$98\frac{4}{7} = a$$

A.  $98\frac{4}{7}$

**Card 30**

1. 

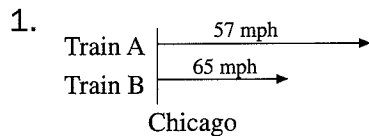
2. the number of pounds of the first mix;

$$m + 100;$$

$$100 \times \$2.25 = \$225;$$

- 3.95m;  
2.25(100);  
2.95(m + 100);  
3.95m + 2.25(100) = 2.95(m + 100)
- 3.95m - 2.95m + 225 = 2.95m - 2.95m + 295  
m + 225 = 295  
m + 225 - 225 = 295 - 225  
m = 70
- Seventy pounds of the snack mix that sells for \$3.95 per pound should be mixed with 100 pounds of the snack mix that sells for \$2.25 per pound to create a snack mix that could sell for \$2.95 per pound.

### Card 31



- how long it will take Train B to catch up to Train A;  
both trains will travel the same distance;  $a + 2$

Train	Distance	Rate	Time
A	?	57	$a + 2$
B		65	$a$

- 57;  $(a + 2)$ ;  
65;  $a$   
 $57(a + 2) = 65a$
- $57a + 114 = 65a$   
 $57a - 57a + 114 = 65a - 57a$   
 $114 = 8a$   
 $\frac{114}{8} = \frac{8a}{8}$   
 $14.25 = a$
- It will take Train B 14.25 hours to catch up to Train A.

### Card 32

- 4;  $\frac{1}{4}$ ;  $\frac{x}{4}$   
3;  $\frac{1}{3}$ ;  $\frac{x}{3}$
- 1;  $\frac{x}{4}$ ;  $\frac{x}{3}$ ; 1

$$3. 12; 12\left(\frac{x}{4} + \frac{x}{3} = 1\right)$$

$$3x + 4x = 12$$

$$7x = 12$$

$$\frac{7x}{7} = \frac{12}{7}$$

$$x = 1\frac{5}{7}$$

- It would take Ricky and James  $1\frac{5}{7}$  hours to unload a truck together.

### Graph and Write Linear and Absolute Value Equations

#### Card 33

$$1. \text{ midpoint}(M) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

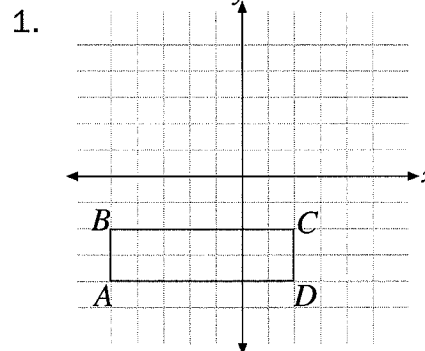
$$2. M = \left(\frac{-3 + 5}{2}, \frac{1 + 7}{2}\right)$$

$$3. x = \frac{-3 + 5}{2} = \frac{2}{2} = 1$$

$$y = \frac{1 + 7}{2} = \frac{8}{2} = 4$$

$$4. (1, 4)$$

#### Card 34



- 7; 2
- 14 square units

#### Card 35

- Let  $(x_1, y_1) = (-2, 5)$  and  $(x_2, y_2) = (4, -7)$ .

$$2. m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$3. \frac{-7 - 5}{4 - (-2)}$$

$$4. \frac{-7 - 5}{4 - (-2)} = \frac{-12}{6}$$

$$5. -\frac{12}{6} = -2$$

$$A. -2$$

#### Card 36

- $(1, 2)$ ;  $(-1, -2)$

$$2. m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$3. \frac{-2 - 2}{-1 - 1} = \frac{-4}{-2} = 2;$$

A. 2

### Card 37

1. standard

$$2. x + 3y = -15$$

$$x - x + 3y = -x - 15$$

$$\frac{3y}{3} = \frac{-x - 15}{3}$$

$$y = -\frac{1}{3}x - 5$$

$$3. -\frac{1}{3}$$

$$A. -\frac{1}{3}$$

### Card 38

$$1. 5x - 7y = 21$$

$$5x - 7(0) = 21$$

$$5x - 0 = 21$$

$$5x = 21$$

$$\frac{5x}{5} = \frac{21}{5}$$

$$x = 4\frac{1}{5}; (4\frac{1}{5}, 0)$$

$$2. 5x - 7y = 21$$

$$5(0) - 7y = 21$$

$$0 - 7y = 21$$

$$-7y = 21$$

$$\frac{-7y}{-7} = \frac{21}{-7}$$

$$y = -3; (0, -3)$$

### Card 39

$$1. 3(1) + y = 12$$

$$3 + y = 12$$

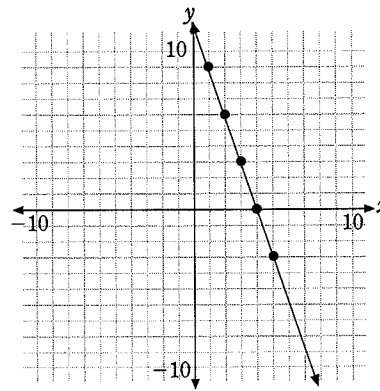
$$3 - 3 + y = 12 - 3$$

$$y = 9$$

2.

x	1	2	3	4	5
y	9	6	3	0	-3

3.



### Card 40

$$1. -6x + 2y = -3$$

$$-6x + 6x + 2y = 6x + -3$$

$$2y = 6x + -3$$

$$\frac{2y}{2} = \frac{6x}{2} + \frac{-3}{2}$$

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

$$2. 3; \frac{-3}{2}$$

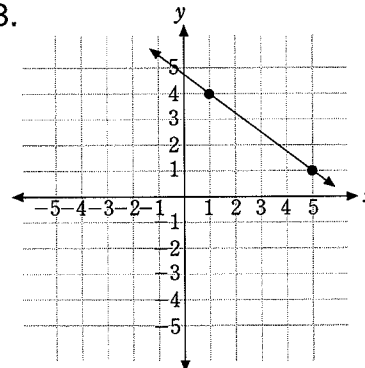
3. positive; increase; negative to positive

$$4. (0, \frac{-3}{2})$$

A. negative to positive; 3;  $(0, \frac{-3}{2})$

### Card 41

1-3.

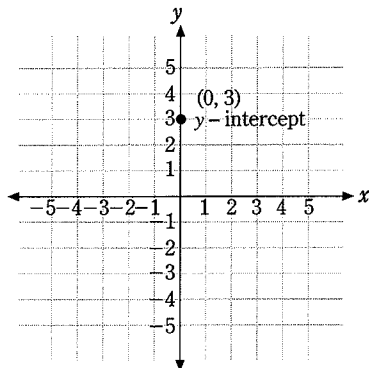


$$2. -3; 4;$$

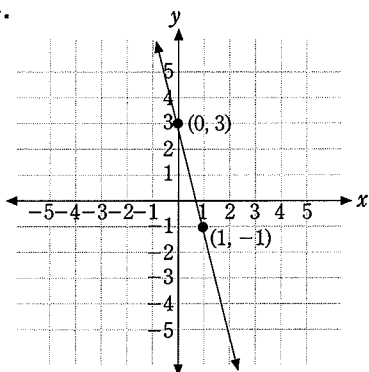
3; negative; 4; positive

**Card 42**

- $-4x + 3$
- 



- $\frac{-4}{1}; -4; 1$
- 3-4.

**Card 43**

- $0 + 5x = -5$

$$\frac{5x}{5} = \frac{-5}{5}$$

$$x = -1$$

$$(-1, 0)$$

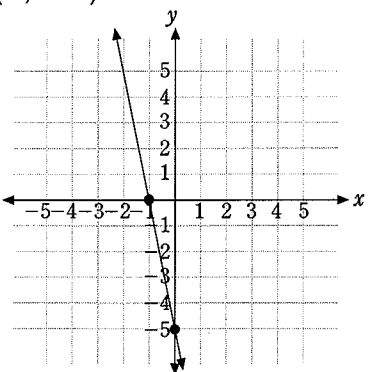
- $y + 5(0) = -5$

$$y + 0 = -5$$

$$y = -5$$

$$(0, -5)$$

- 

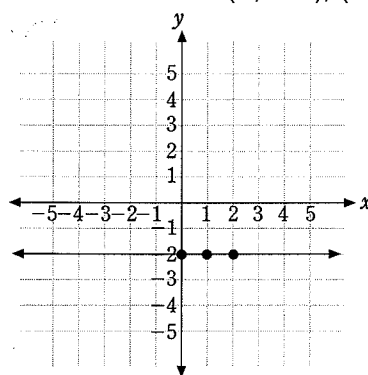
**Card 44**

- $\frac{4y}{4} = \frac{-8}{4}$

$$y = -2$$

- Possible answer:  $(0, -2), (1, -2), (2, -2)$

- 

**Card 45**

- the total amount Nicole earns;  
the number of sales Nicole makes;  
 $5x + 500$ ;  
 $6x + 500$
- The slope changed from 5 to 6.
- The  $y$ -intercept did not change.

**Card 46**

- $y = mx + b$ ;

$$ax + by = c$$

- $3x - 2y = -6$

$$3x - 3x - 2y = -6 - 3x$$

$$-2y = -6 - 3x$$

- $3 + \frac{3x}{2}$

- $\frac{3}{2}x + 3$

**Card 47**

- $y = mx + b$ , where  $m$  is the slope and  $b$  is the  $y$ -intercept.

- $-\frac{2}{3}; 5$ ;

$$-\frac{2}{3}x + 5$$

- $3(y = -\frac{2}{3}x + 5)$

$$3y = -2x + 15$$

$$3y + 2x = -2x + 2x + 15$$

$$3y + 2x = 15;$$

$$2x + 3y = 15$$

**Card 48**

- $y - y_1 = m(x - x_1)$ , where  $m$  is the slope of the line and  $(x_1, y_1)$  is a point on the line.
- 5;  
6;

$$-2;$$

$$y - (-2) = 5(x - 6)$$

$$3. y + 2 = 5x - 30;$$

$$-5x + y = -32$$

### Card 49

$$1. \frac{(-3 - 2)}{(1 - (-4))} = \frac{(-3 - 2)}{(1 + 4)} = \frac{-5}{5} = -1;$$

$$-1$$

$$2. -1;$$

Possible answer:  $-4$ ;

Possible answer:  $2$ ;

$$y - 2 = -1(x - (-4))$$

$$3. y - 2 = -x - 4;$$

$$x + y = -2$$

### Card 50

$$1. 5; (0, 5)$$

$$2. \text{Possible answer: } (3, 4)$$

$$3. \text{Possible answer: } \frac{(4 - 5)}{(3 - 0)} = \frac{-1}{3}$$

$$4. -\frac{1}{3};$$

Possible answer:  $0$ ;

Possible answer:  $5$ ;

$$y - 5 = -\frac{1}{3}(x - 0)$$

$$5. y - 5 = -\frac{1}{3}x$$

$$3(y - 5 = -\frac{1}{3}x)$$

$$3y - 15 = -x$$

$$x + 3y - 15 = -x + x$$

$$x + 3y - 15 = 0$$

$$x + 3y - 15 + 15 = 0 + 15$$

$$x + 3y = 15$$

### Card 51

$$1. \frac{x}{2} - 6; \frac{1}{2}$$

$$2. \text{parallel}; \frac{1}{2}$$

$$3. \frac{1}{2};$$

$$-4;$$

$$0;$$

$$y - 0 = \frac{1}{2}(x - (-4))$$

$$4. y = \frac{1}{2}(x + 4)$$

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

$$2(y = \frac{x}{2} + 2)$$

$$2y = x + 4$$

$$-x + 2y = x - x + 4$$

$$-x + 2y = 4$$

### Card 52

1.

Year	$t$	$P$
1950	0	\$3
1990		\$35

$$2. 1951;$$

$$1960;$$

$$40$$

$$3. 3$$

$$4. (0, 3); (40, 35);$$

$$\frac{(35 - 3)}{(40 - 0)} = \frac{32}{40} = \frac{4}{5}$$

$$5. \frac{4t}{5} + 3$$

$$6. 65;$$

$$P = \frac{4}{5}(65) + 3$$

$$P = 52 + 3 = 55$$

7. The price of a bus ticket from Carbondale to Union in 2015 could be \$55.

### Card 53

$$1. \frac{5}{9}x + 4 = \frac{5}{6}x - 1;$$

$$\frac{5}{9}x + 4 = -\left(\frac{5}{6}x - 1\right)$$

$$2. \frac{5}{9}x + 4 = \frac{5}{6}x - 1$$

$$18\left(\frac{5}{9}x + 4 = \frac{5}{6}x - 1\right)$$

$$10x + 72 = 15x - 18$$

$$10x - 10x + 72 = 15x - 10x - 18$$

$$72 = 5x - 18$$

$$72 + 18 = 5x - 18 + 18$$

$$\frac{90}{5} = \frac{5x}{5}$$

$$18 = x$$

$$3. \frac{5}{9}x + 4 = -\left(\frac{5}{6}x - 1\right)$$

$$18\left(\frac{5}{9}x + 4 = -\frac{5}{6}x + 1\right)$$

$$10x + 72 = -15x + 18$$

$$10x + 15x + 72 = -15x + 15x + 18$$

$$25x + 72 = 18$$

$$25x + 72 - 72 = 18 - 72$$

$$\frac{25x}{25} = \frac{-54}{25}$$

$$x = \frac{-54}{25}$$

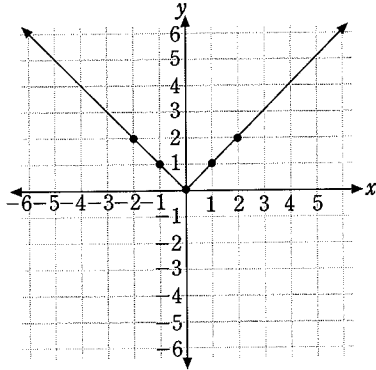
A.  $x = 18$  or  $x = \frac{-54}{25}$

**Card 54**

1.

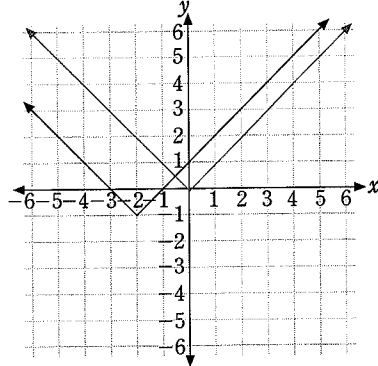
x	-2	-1	0	1	2
y	2	1	0	1	2

2.



3. 1; negative; y;  
2; negative; x

4.



5. Possible answers:

$$(-2, -1)$$

$$-1 + 1 = |-2 + 2|$$

$$0 = |0| \checkmark \text{ true}$$

$$(0, -1)$$

$$1 + 1 = |0 + 2|$$

$$2 = |2| \checkmark \text{ true}$$

$$(-3, 0)$$

$$0 + 1 = |-3 + 2|$$

$$1 = |-1| \checkmark \text{ true}$$

**Card 55**

1.  $5h + 3$

2. 8;

$$h = 0$$

$$C = 5h + 3$$

$$C = 5(0) + 3$$

$$C = 0 + 3 = 3$$

$$(0, 3)$$

$$h = 8$$

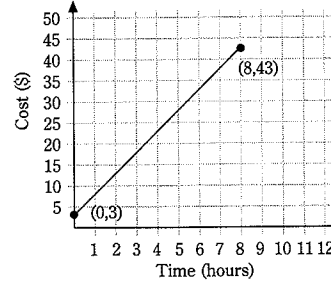
$$C = 5h + 3$$

$$C = 5(8) + 3$$

$$C = 40 + 3 = 43$$

$$(8, 43)$$

3.



4.  $C = 5h + 3$

$$C = 5(4) + 3$$

$$C = 20 + 3 = 23;$$

$$\$23.00$$

The cost of spending 4 hours at Pizzazz is \$23.00.

**Relations and Functions**

**Card 56**

1. domain; range

2. infinity

3.  $\infty$ ;  $-\infty$ ;

negative infinity; infinity;  $(-\infty, \infty)$

4.  $(0, -4)$ ;  $-4$ ; infinity

5.  $-4$ ; infinity;

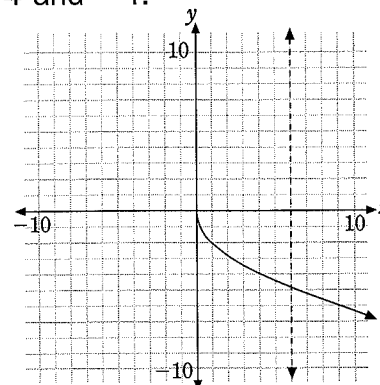
$[-4, \infty)$

**Card 57**

1. x-value; y-value

2. no; Possible answers: 0 and 0, 1 and  $-2$ , 4 and  $-4$ .

3.

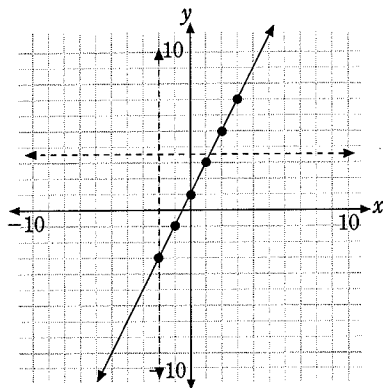


1

A. is

**Card 58**

- one  $x$ -value for every  $y$ -value and one  $y$ -value for every  $x$ -value.
- no; Possible answers: 0 and 1, 1 and 3, -1 and -1
- 



one; one

A. is

**Card 59**

- replace every  $x$  with 2 and simplify
- $f(2) = -3(2)^3 + 2(2) - 15$
- $f(2) = -3(2)^3 + 2(2) - 15$   
 $= -3(8) + 4 - 15$   
 $= -24 + 4 - 15$   
 $= -35$

A. -35

**Card 60**

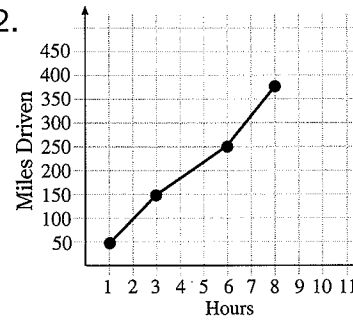
- the store's profit on sales of single-use cameras;  
cameras the company sells
- $f(c) = 8.5c - 400$   
 $f(60) = 8.5(60) - 400$
- $f(60) = 8.5(60) - 400$   
 $= 510 - 400$   
 $= 110$
- 110; \$110; 60

**Card 61**

- The cost increases by \$35 each month; \$35
- | Month      | 4     | 5   | 6   | 7   | 8   |
|------------|-------|-----|-----|-----|-----|
| Total Cost | \$200 | 235 | 270 | 305 | 340 |
- The total cost for eight months of cellular phone service is \$340.

**Card 62**

1-2.



$$3. \frac{(145 - 45)}{(3 - 1)} = \frac{100}{2} = 50$$

$$\frac{(257 - 145)}{(6 - 3)} = \frac{112}{3} = 37.3$$

$$\frac{(370 - 257)}{(8 - 6)} = \frac{113}{2} = 56.5$$

- average speed of the truck;  
6 and 8

**Card 63**

- 2
- Possible answer:  $y - (-1) = -2(x - 3)$
- $y - (-1) = -2(x - 3)$   
 $y + 1 = -2x + 6$   
 $y + 1 - 1 = -2x + 6 - 1$   
 $y = -2x + 5$

**Card 64**

- 3, 4, 5, and 6
- 2-3. 
$$\begin{array}{r} 3 \overline{) 6158} \\ \underline{4} \phantom{79841} \\ 5 \phantom{2795} \\ \underline{6} \phantom{0} \\ 0 \end{array}$$
- 3; 6;  
6; 0

**Card 65**

- 52
  - 52; 52
  - 13; 4;  
13; 3; 16
  - $\frac{16}{52}$ ;  
 $\frac{16}{52} = \frac{4}{13}$
- A.  $\frac{4}{13}$

**Card 66**

- $\frac{14}{20}$ ;  
 $\frac{6}{20}$

2. 25;

$$\frac{14}{20} = \frac{n}{25}$$

$$\frac{6}{20} = \frac{n}{25}$$

3.  $\frac{14}{20} = \frac{n}{25}$

$$350 = 20n$$

$$\frac{350}{20} = \frac{20n}{20}$$

$$17.5$$

$$\frac{6}{20} = \frac{n}{25}$$

$$150 = 20n$$

$$\frac{150}{20} = \frac{20n}{20}$$

$$7.5 = n$$

4. 17 or 18; 8 or 7

### Card 67

1. 4

2. 1, 2, 6, ⑤, 3, 7, 4

3. 1; 4; 3 or 5

4. A) false The mean is only equal to the mode if the mode is equal to the median.

B) false There are never two means.

C) true The median is a score of 5 and the mode is a score of 4. A score of 5 was earned less often than a score of 4.

D) false The mode is 4 and the median is 5. These are not the same.

A. C

### Inequalities and Absolute Value Inequalities

#### Card 68

1.  $2 + 3x + -5 > 6 - 2(5x + 1)$

$$2 + 3x + -5 > 6 - 10x - 2$$

2.  $-3 + 3x > 4 - 10x$

$$-3 + 3 + 3x > 4 + 3 - 10x$$

$$3x > 7 - 10x$$

$$3x + 10x > 7 - 10x + 10x$$

$$13x > 7$$

3.  $13x > 7$

$$\frac{13x}{13} > \frac{7}{13}$$

$$x > \frac{7}{13}$$

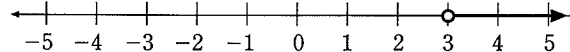
A.  $x > \frac{7}{13}$ ; greater than  $\frac{7}{13}$

### Card 69

1. -9

2.  $x > 3$

3.



### Card 70

1.  $5x < -2(9 + 2x)$

$$5x < -18 - 4x$$

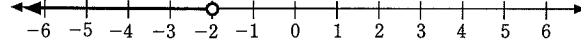
2.  $5x + 4x < -18 - 4x + 4x$

$$9x < -18$$

3.  $\frac{9x}{9} < \frac{-18}{9}$

$$x < -2$$

4.



### Card 71

1. the number of sales Brad must make, the number he has made so far, and the number he made today; add 78 and 12 to find the total number of sales he has made so far, and subtract from 125

2.  $125 - (78 + 12);$

$\geq;$

$$x \geq 125 - (78 + 12)$$

3.  $x \geq 125 - 90$

$$x \geq 35$$

4. Brad must make at least 35 more sales to earn a bonus.

### Card 72

1.  $2x - 3 > 5;$

$$2x - 3 < -5$$

2.  $2x - 3 > 5$

$$2x - 3 + 3 > 5 + 3$$

$$\frac{2x}{2} > \frac{8}{2}$$

$$x > 4$$

3.  $2x - 3 < -5$

$$2x - 3 + 3 < -5 + 3$$

$$\frac{2x}{2} < \frac{-2}{2}$$

$$x < -1$$

4. or;  $x > 4$  or  $x < -1$

### Card 73

1.  $2x + 5 \leq 7;$

$$2x + 5 \geq -7$$

2.  $2x + 5 \leq 7$