

7.A.1 Quiz 1

1. Which equation forms a direct variation Std: 7.A.1

A $y = 2x + 1$

B $-3 + y = \frac{1}{3}x$

C $\frac{4}{5}x = y$

D $y = \frac{3}{5x}$

Level 3

2. Which equation forms a inverse variation Std: 7.A.1

A $y = \frac{3}{5x}$

B $y = 2x + 1$

C $-3 + y = \frac{1}{3}x$

D $\frac{4}{5}x = y$

Level 3

3. Given the following proportional relationship, find the constant of proportionality: Std: 7.A.1

A $k = \frac{3}{1}$

B $k = -\frac{3}{1}$

C $k = \frac{1}{3}$

D $k = -\frac{1}{3}$

Level 3

4. Given the following inverse relationship, and the point find k: Std: 7.A.1

A $k = \frac{4}{1}$

B $k = -\frac{4}{1}$

C $k = \frac{1}{4}$

D $k = -\frac{1}{4}$

Level 3

5. Identify the graph that shows a proportional relationship. Std: 7.A.1

A

B

C

D

Level 3

6. Identify the table that shows a proportional relationship. Std: 7.A.1

A

X	0	1	2	3	4
Y	0	2	3	4	5

B

X	Y
0	2
10	4
20	8
30	12
40	16

C

X	0	1	2	3	4
Y	0	5	10	15	25

D

X	Y
0	0
1	3
2	6
4	12
8	24

Level 3

7.A.2 Quiz 1 Std: 7.A.2

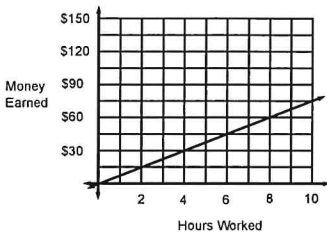
1. The graph shows the relationship between hours worked and money earned. Which statement is true?

A \$7.50 dollars is earned per hour

B \$15 dollars is earned per hour

C \$30 dollars is earned per hour

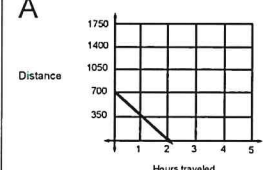
D \$60 dollars is earned per hour

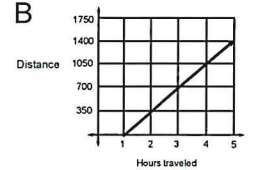


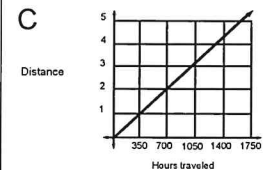
Level 3

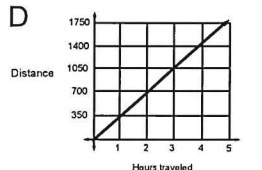
Std: 7.A.2

2. A plane flies at a rate of 350 miles per hour. Which graph shows this linear relationship?

A 

B 

C 

D 

Level 3

Std: 7.A.2

3. A recipe serves 8 and it asks for 3 cups of sugar. How many cups of sugar do you need if you are serving 12?

A 1.5 Cups

B 3 Cups

C 4.5 Cups

D 6 Cups

Level 3

Std: 7.A.2

4. A laptop costs \$1,200. It is on sale for a 15% discount. How much is the discount?

A \$180

B \$1020

C \$1320

D \$15

Level 3

Std: 7.A.2

5. Bob is going to purchase a new electric guitar that retails for \$1,800. If the store is giving a 20% discount. What will Bob have to pay for the guitar if sales tax is 8%?

A \$360.20

B \$1,440.00

C \$1,555.20

D \$1,584.00

Level 3-4

Std: 7.A.2

6. Which relationship best describes a person draining the amount of water in a swimming pool?

A Negative Linear Relationship

B Positive Linear Relationship

C Negative Non-linear Relationship

D Positive Non-linear Relationship

Level 3-4

Std: 7.A.2

7. Which of the choices below is the cheapest rate for buying steak?

- A \$18.75 for 2.7 pounds
- B \$25.25 for 3.25 pounds
- C \$38.15 for 5.15 pounds
- D \$44.89 for 6.2 pounds

Level 3

Std: 7.A.2

8. A person stands about 6 feet tall, and casts a shadow of 8 feet. A tree of unknown height casts a shadow of 20 feet. Use proportional reasoning to find the height of the tree.

- A The tree is 10 feet tall
- B The tree is 12.5 feet tall
- C The tree is 15 feet tall
- D The tree is 17.5 feet tall

Level 3

7.A.3 Quiz 1

Std: 7.A.3

1. Solve for the following equation:

$$3(-2x + 5) = 27$$

- A $x = -2$
- B $x = 2$
- C $x = 8$
- D $x = 16$

Level 3

Std: 7.A.3

2. Solve for the following inequality:

$$3 + x \geq 10$$

- A $x \geq -7$
- B $x \geq -5$
- C $x \geq 5$
- D $x \geq 7$

Level 3

Std: 7.A.3

3. A cell phone provider charges an origination fee of \$150 and \$60 per month. If y represents the total cost, and x represents the number of months, which equation describes this situation.

- A $x = 150y + 60$
- B $y = 150x + 60$
- C $x = 60y + 150$
- D $y = 60x + 150$

Level 3

Std: 7.A.3

4. A cell phone provider charges an origination fee of \$150 and \$60 per month. If y represents the total cost, and x represents the number of months, which equation describes this situation. How much will it cost for 10 months?

- A \$200
- B \$350
- C \$600
- D \$750

Level 3

Std: 7.A.3

5. Which value of z makes the following statement true?

$$\frac{z}{12} + 22.5 = -10.5$$

- A -396
- B 396
- C -750.5
- D 750.5

Level 3

7.A.4 Quiz 1 Std: 7.A.4

1. Simplify:

$$-5(24 \div 6) + 2^2$$

A -16
B 16
C -56
D 56

Level 3

2. Simplify: Std: 7.A.4

$$6.1 + (7.5 \times 11 \times 2)^2$$

A -1236.1
B 1723.9
C 27231.1
D 166072.5

Level 3

3. Simplify: Std: 7.A.4

$$\frac{1}{4}(16x - 8) = -1.5$$

A -0.125
B 0.125
C -0.25
D 0.25

Level 3

4. Simplify: Std: 7.A.4

$$-3x + 8x - 9y$$

A $-11x - 9y$
B $5x - 9y$
C $-5x - 9y$
D $11x - 9y$

Level 3

5. Simplify: Std: 7.A.4

$$2x + 5y + 2x^2 - 7y$$

A $4x^2 - 2y$
B $2x + 2x^2 - 2y$
C $4x^2 - 12y$
D $4x^2 - 2y$

Level 3

7.A Standard Quiz Std: 7.A.1

1. Which equation forms a direct variation

A $y = 2x + 1$

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

C $\frac{-4}{3}x = y$

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

Level 3

Std: 7.A.1

2. Which equation forms a inverse variation

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

B $\frac{4}{5}x = y$

C $-3 + y = \frac{1}{3}x$

D $y = 2x + 1$

Level 3

Std: 7.A.1

3. Given the following proportional relationship, find the constant of proportionality:

A $k = \frac{2}{3}$

B $k = -\frac{2}{3}$

C $k = \frac{3}{2}$

D $k = -\frac{3}{2}$

Level 3

Std: 7.A.1

4. Given the following inverse relationship, and the point find k:

A $k = \frac{1}{2}$

B $k = \frac{2}{1}$

C $k = -\frac{2}{1}$

D $k = -\frac{1}{2}$

Level 3

Std: 7.A.2

5. The graph shows the relationship between hours worked and money earned. Which statement is true?

A \$7.50 dollars is earned per hour

B \$15 dollars is earned per hour

C \$30 dollars is earned per hour

D \$60 dollars is earned per hour

Level 3

Std: 7.A.2

6. A jet flies at a rate of 700 miles per hour. Which graph shows this linear relationship?

A

B

C

D

Level 3

7. A TV costs \$1,300. If tax is at 8.5%. How much is the the sales tax? Std: 7.A.2

- A \$85
- B \$110.50
- C \$1189.50
- D \$1410.50

Level 3

8. Petulia is going to purchase a new electric guitar that retails for \$3,500. If the store is giving a 12.5% discount. What will she have to pay for the guitar if sales tax is 9%? Std: 7.A.2

- A \$437.50
- B \$3062.50
- C \$3215.25
- D \$3338.13

Level 3-4

9. Solve for the following equation: Std: 7.A.3

$$-3(-5x - 10) = 60$$

- A $x = -2$
- B $x = 2$
- C $x = 8$
- D $x = 16$

Level 3

10. An Internet provider charges an installation fee of \$50 and \$35 per month. If y represents the total cost, and x represents the number of months, which equation describes this situation. Std: 7.A.3

- A $y = 50x + 35$
- B $y = 35x + 50$
- C $x = 35y + 50$
- D $x = 50y + 35$

Level 3

11. Which value of Y makes the following statement true? Std: 7.A.3

$$\frac{Y}{-2} + 2.5 = -0.5$$

- A -6
- B -1
- C 1
- D 6

Level 3

12. Simplify: Std: 7.A.4

$$6^2 + (-2 \times 8 \times 5) + 14$$

- A -100
- B -30
- C 30
- D 100

Level 3

Standard Quiz	Question Number Followed by the Answer											
7.N.1Quiz1	1.B	2.D	3.B	4.B	5.D	6.D						
7.N.2Quiz1	1.C	2.D	3.B	4.D	5.B	6.D	7.A	8.A				
7.N.2Quiz2	1.C	2.A	3.D	4.B	5.D							
7.NQuiz	1.A	2.B	3.D	4.A	5.C	6.C	7.A*	8.B*	9.A	10.C	11.C	12.C
7.A.1Quiz1	1.C	2.A	3.C	4.A	5.B	6.D						
7.A.2Quiz1	1.A	2.D	3.C	4.A	5.C	6.A	7.A	8.C				
7.A.3Quiz1	1.A	2.D	3.D	4.D	5.A							
7.A.4Quiz1	1.A	2.C	3.B	4.B	5.B							
7.A.Std.Quiz	1.C	2.A	3.C	4.B	5.C	6.A	7.B	8.D	9.B	10.B	11.D	12.B
7.GM.1Quiz1	1.C	2.D	3.A	4.B	5.A							
7.GM.2Quiz1	1.A	2.C	3.D	4.B								
7.GM.3Quiz1	1.D	2.B	3.A	4.C	5.A	6.B						
7.GM.4Quiz1	1.D	2.A	3.A	4.B	5.C	6.D	7.C	8.A	9.C	10.A		
7.GM.Std.Quiz	1.D	2.B	3.B	4.D	5.C	6.D	7.A	8.B	9.C	10.A	11.C	12.A
7.D.1Quiz1	1.B	2.B	3.C	4.A	5.D	6.D						
7.D.2Quiz1	1.B	2.C	3.A	4.C	5.D							
7.D.Std.Quiz	1.A	2.A	3.C	4.D	5.B	6.C	7.C	8.D	9.D	10.A	11.B	12.C
Standard Test	1.B	2.B	3.C	4.C	5.A	6.C	7.C	8.A	9.B	10.D	11.C	12.A
	13.D	14.C	15.A	16.C	17.C	18.D	19.C	20.A	21.A	22.D	23.D	24.A
	25.C	26.B	27.B	28.D	29.C	30.D	31.B	32.D	33.B	34.D	35.D	36.B
	37.C	38.A	39.D	40.D	41.D	42.C						