

Name _____

Date _____

Reporting Category 4 (A.7.B.)

1. Auto-Check Motors charged Mr. Jones \$84.00 for an automotive part plus \$68.00 per hour that a mechanic worked to install the part. The total charge was \$353.00. For about how long did the mechanic work to install the part on Mr. Jones's car?

- F 6 h
- G 5 h
- H 4 h
- J 3 h

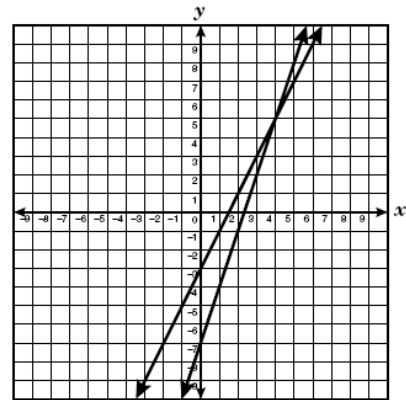
2. If $(x, -4)$ is a solution to the equation $4x - 5y = 8$, what is the value of x ?

- A -4.8
- B -3
- C 1.6
- D 7

3. The graphs of the linear equations $y = 2x - 3$ and $y = 3x - 7$ are shown below.

If $2x - 3 = 3x - 7$, what is the value of x ?

- F 4
- G 5
- H 9
- J 10



4. If $(x, -3.2)$ is a solution to the equation $4x = 5y - 17$, what is the value of x ?

- F 0.84
- G 0.25
- H -5.96
- J -8.25

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5. If $(-7, y)$ is a solution to the equation $2x - 7y - 42 = 0$, what is the value of y ?

- A -4
- B -8
- C -3.5
- D -6.7

6. In the equation $6.5x + 1.4y = 59$, what is the value of x when $y = 5$?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

				.		
0	0	0	0		0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9

7. What is the value of y if $(3, y)$ is a solution to the equation $5x - 3y = 18$?

- F 3
- G 1
- H -1
- J -11

8. The length of each leg of an isosceles triangle is 5 centimeters more than twice the length of the base. If the perimeter of this isosceles triangle is 95 centimeters, what is the length of the base?

- A 17 cm
- B 21 cm
- C 30 cm
- D 39 cm

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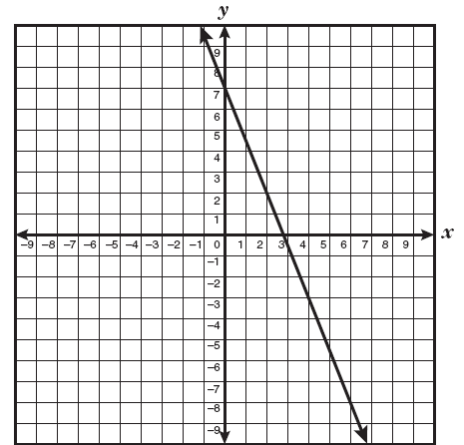
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9. The graph of the linear equation $y = -\frac{5}{2}x + 7$ is shown below.

Which coordinate pair is in the solution set of $y < -\frac{5}{2}x + 7$?

- A (4, -3)
- B (1, 2)
- C (5, 6)
- D (0, 7)



10. For what value of x is $(x, -3)$ a solution for $4x - 3y = 21$?

- A 11
- B -3
- C -11
- D 3

11. Anna makes hand-painted plates. Her overhead costs are \$750 per week, and she pays an additional

\$10 per plate in material costs. If Anna sells the plates for \$25 each, how many plates does she have to sell each week before she can make a profit?

- A 20
- B 30
- C 50
- D 75

12. Ms. Barton determined that the total cost of her wedding, c , could be represented by the equation

$c = 75n + 1500$, where n is the number of people attending the wedding. If Ms. Barton's wedding cost \$8625, how many people attended the wedding?

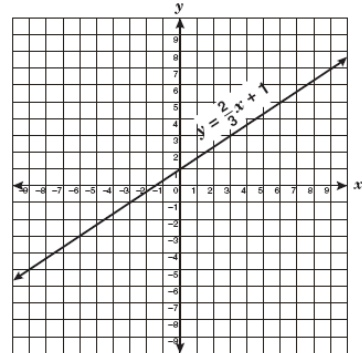
- F 135
- G 95
- H 115
- J 75

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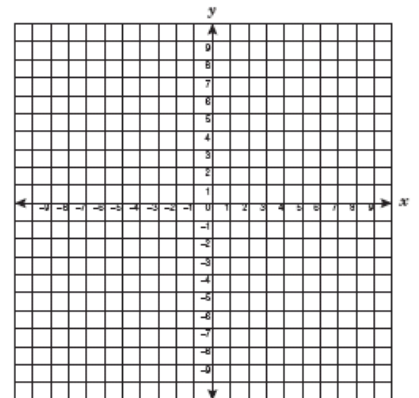
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13. Use the graph of $y = \frac{2}{3}x + 1$ to solve the equation for x when $y = -3$.



- F $x = -6$
- G $x = -1$
- H $x = 1$
- J $x = 3$

14. Use the grid to graph $y \geq x - 2$.



Which coordinate point represents a solution of this inequality?

- A (4, 0)
- B (-3, -5)
- C (7, 2)
- D (-2, 3)

15. The equation $F = \frac{9}{5}C + 32$ represents the relationship between F , the temperature in degrees Fahrenheit, and C , the temperature in degrees Celsius. If the temperature is 104°F , what is the temperature in degrees Celsius?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

				.		
0	0	0	0		0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9

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16. If $(5\frac{1}{3}, y)$ is a solution to the equation $5x - 4y - 20 = 0$,
what is the value of y ?

F $-11\frac{2}{3}$

H $\frac{4}{15}$

G $8\frac{4}{15}$

J $1\frac{2}{3}$

17. The graph of $-x + 5y = 9$ is shown below.
Which point represents a solution to this equation?

A $(0, 1)$

B $(2, 1)$

C $(1, 2)$

D $(-7, 0)$

