Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: ac472881

$$\frac{12x+28}{4} - \frac{s}{13} = r(x-8)$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: ac472881

$$\frac{12x+28}{4} - \frac{s}{13} = r(x-8)$$

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SAT	Math	Algebra	Linear equations in one variable	•••

ID: ac472881

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SAT	Math	Algebra	Linear equations in one variable	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: ac472881

$$\frac{12x+28}{4} - \frac{s}{13} = r(x-8)$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: d1b66ae6

$$-x+y=-3.5$$
$$x+3y=9.5$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: d1b66ae6

$$-x+y=-3.5$$
$$x+3y=9.5$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: d1b66ae6

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$$x+3y=9.5$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: d1b66ae6

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$$x+3y=9.5$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: d1b66ae6

$$-x+y=-3.5$$
$$x+3y=9.5$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 3cdbf026

The graph of the equation ax + ky = 6 is a line in the *xy*-plane, where *a* and *k* are constants. If the line contains the points (-2, -6) and (0, -3), what is the value of

k?

A. −2

B. **−1**

C. 2

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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k?

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B. **−1**

C. 2

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: ff501705

$$\frac{\frac{3}{2}y - \frac{1}{4}x = \frac{2}{3} - \frac{3}{2}y}{\frac{1}{2}x + \frac{3}{2} = py + \frac{9}{2}}$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: ff501705

$$\frac{\frac{3}{2}y - \frac{1}{4}x = \frac{2}{3} - \frac{3}{2}y}{\frac{1}{2}x + \frac{3}{2} = py + \frac{9}{2}}$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

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$$\frac{\frac{3}{2}y - \frac{1}{4}x = \frac{2}{3} - \frac{3}{2}y}{\frac{1}{2}x + \frac{3}{2} = py + \frac{9}{2}}$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 2937ef4f

- A. 3
- B. 7
- C. 8
- D. 12

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 2937ef4f

- A. 3
- B. 7
- C. 8
- D. 12

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 2937ef4f

- A. 3
- B. 7
- C. 8
- D. 12

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 2937ef4f

- A. 3
- B. 7
- C. 8
- D. 12

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 2937ef4f

- A. 3
- B. 7
- C. 8
- D. 12

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 9bbce683

\boldsymbol{x}	\boldsymbol{y}
18	130
23	160
26	178

A.
$$(-\frac{26}{3},0)$$

B.
$$(-\frac{9}{2},0)$$

C.
$$(-\frac{11}{3},0)$$

D.
$$(-\frac{17}{6},0)$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 9bbce683

\boldsymbol{x}	\boldsymbol{y}
18	130
23	160
26	178

A.
$$(-\frac{26}{3},0)$$

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SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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D.
$$(-\frac{17}{6},0)$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 9bbce683

\boldsymbol{x}	\boldsymbol{y}
18	130
23	160
26	178

A.
$$(-\frac{26}{3},0)$$

B.
$$(-\frac{9}{2},0)$$

C.
$$(-\frac{11}{3},0)$$

D.
$$(-\frac{17}{6},0)$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: 2b15d65f

- A. 16,250
- B. 16,500
- C. 16,750
- D. 17,500

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: 2b15d65f

- A. 16,250
- B. 16,500
- C. 16,750
- D. 17,500

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: 2b15d65f

- A. 16,250
- B. 16,500
- C. 16,750
- D. 17,500

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: 2b15d65f

- A. 16,250
- B. 16,500
- C. 16,750
- D. 17,500

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: 2b15d65f

- A. 16,250
- B. 16,500
- C. 16,750
- D. 17,500

Question ID e25f0807

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear functions	***	

ID: e25f0807

$oldsymbol{x}$	$oldsymbol{y}$
-12	-45
6	45

The table shows two values of x and their corresponding values of y. The graph of the linear equation representing this relationship passes through the point $(\frac{1}{4}, a)$. What is the value of a?

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: e25f0807

\boldsymbol{x}	$oldsymbol{y}$
-12	-45
6	45

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: e25f0807

\boldsymbol{x}	$oldsymbol{y}$
-12	-45
6	45

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: e25f0807

\boldsymbol{x}	$oldsymbol{y}$
-12	-45
6	45

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: e25f0807

\boldsymbol{x}	$oldsymbol{y}$
-12	-45
6	45

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: be9cb6a2

A.
$$y=270x-135$$

B.
$$y = 270x + 135$$

C.
$$y=135x+270$$

D.
$$y = 135x + 135$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: be9cb6a2

A.
$$y=270x-135$$

B.
$$y = 270x + 135$$

C.
$$y=135x+270$$

D.
$$y = 135x + 135$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: be9cb6a2

A.
$$y=270x-135$$

B.
$$y = 270x + 135$$

C.
$$y=135x+270$$

D.
$$y = 135x + 135$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: be9cb6a2

A.
$$y=270x-135$$

B.
$$y = 270x + 135$$

C.
$$y=135x+270$$

D.
$$y = 135x + 135$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: be9cb6a2

A.
$$y=270x-135$$

B.
$$y = 270x + 135$$

C.
$$y=135x+270$$

D.
$$y = 135x + 135$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: db422e7f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: db422e7f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: db422e7f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: db422e7f

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	

ID: 45cfb9de

A.
$$w - 5 < 20$$

B.
$$w - 5 > 20$$

C.
$$w + 5 < 20$$

D.
$$w + 5 > 20$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	

ID: 45cfb9de

A.
$$w - 5 < 20$$

B.
$$w - 5 > 20$$

C.
$$w + 5 < 20$$

D.
$$w + 5 > 20$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	

ID: 45cfb9de

A.
$$w - 5 < 20$$

B.
$$w - 5 > 20$$

C.
$$w + 5 < 20$$

D.
$$w + 5 > 20$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	

ID: 45cfb9de

A.
$$w - 5 < 20$$

B.
$$w - 5 > 20$$

C.
$$w + 5 < 20$$

D.
$$w + 5 > 20$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	

ID: 45cfb9de

A.
$$w - 5 < 20$$

B.
$$w-5 > 20$$

C.
$$w + 5 < 20$$

D.
$$w + 5 > 20$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: f14484a5

A.
$$10(4n) + 9n + 7(10) = 100$$

B.
$$10n + 9n + 7n = 100$$

C.
$$4n + 10 = 100$$

D.
$$5n + 10 = 100$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: f14484a5

A.
$$10(4n) + 9n + 7(10) = 100$$

B.
$$10n + 9n + 7n = 100$$

C.
$$4n + 10 = 100$$

D.
$$5n + 10 = 100$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: f14484a5

A.
$$10(4n) + 9n + 7(10) = 100$$

B.
$$10n + 9n + 7n = 100$$

C.
$$4n + 10 = 100$$

D.
$$5n + 10 = 100$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: f14484a5

A.
$$10(4n) + 9n + 7(10) = 100$$

B.
$$10n + 9n + 7n = 100$$

C.
$$4n + 10 = 100$$

D.
$$5n + 10 = 100$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: f14484a5

A.
$$10(4n) + 9n + 7(10) = 100$$

B.
$$10n + 9n + 7n = 100$$

C.
$$4n + 10 = 100$$

D.
$$5n + 10 = 100$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: b7e6394d

A.
$$\frac{25}{4}m = 95$$

B.
$$\frac{25}{4}m = 5$$

$$c. \frac{4}{25}m = 95$$

D.
$$\frac{4}{25}m = 5$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: b7e6394d

A.
$$\frac{25}{4}m = 95$$

B.
$$\frac{25}{4}m = 5$$

$$c. \frac{4}{25}m = 95$$

D.
$$\frac{4}{25}m = 5$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: b7e6394d

A.
$$\frac{25}{4}m = 95$$

B.
$$\frac{25}{4}m = 5$$

$$c. \frac{4}{25}m = 95$$

D.
$$\frac{4}{25}m = 5$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: b7e6394d

A.
$$\frac{25}{4}m = 95$$

B.
$$\frac{25}{4}m = 5$$

$$c. \frac{4}{25}m = 95$$

D.
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: b7e6394d

A.
$$\frac{25}{4}m = 95$$

B.
$$\frac{25}{4}m = 5$$

$$c. \frac{4}{25}m = 95$$

D.
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: ee2f611f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: ee2f611f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: ee2f611f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: ee2f611f

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: ee2f611f

Question ID 25e1cfed

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 25e1cfed

How many solutions does the equation 10(15x-9)=-15(6-10x) have?

- A. Exactly one
- B. Exactly two
- C. Infinitely many
- D. Zero

Question ID 25e1cfed

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 25e1cfed

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

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SAT	Math	Algebra	Linear equations in one variable	•••

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SAT	Math	Algebra	Linear equations in one variable	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: fdee0fbf

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: fdee0fbf

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: fdee0fbf

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: fdee0fbf

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: fdee0fbf

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	

ID: f75bd744

$$4x-6y=10y+2 \ ty=rac{1}{2}+2x$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	

ID: f75bd744

$$4x-6y=10y+2 \ ty=rac{1}{2}+2x$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	

ID: f75bd744

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	

ID: f75bd744

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: f75bd744

$$4x-6y=10y+2 \ ty=rac{1}{2}+2x$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: b3abf40f

$$F(x) = rac{9}{5}(x-273.15) + 32$$

- A. **16.38**
- B. **48.38**
- C. **475.29**
- D. **507.29**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: b3abf40f

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: b3abf40f

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- A. **16.38**
- B. **48.38**
- C. **475.29**
- D. **507.29**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: e6cb2402

$$3(kx+13) = \frac{48}{17}x + 36$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: e6cb2402

$$3(kx+13) = \frac{48}{17}x + 36$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: e6cb2402

$$3(kx+13) = \frac{48}{17}x + 36$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: e6cb2402

$$3(kx+13) = \frac{48}{17}x + 36$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: e6cb2402

$$3(kx+13) = \frac{48}{17}x + 36$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: b988eeec

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: b988eeec

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: b988eeec

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: b988eeec

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: b988eeec

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: 70feb725

- A. 80
- B. 100
- C. 120
- D. 160

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: 70feb725

- A. 80
- B. 100
- C. 120
- D. 160

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

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Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

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Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: 70feb725

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Question ID 1a621af4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: 1a621af4

A number x is at most 2 less than 3 times the value of y. If the value of y is -4, what is the greatest possible value of x?

Question ID 1a621af4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: 1a621af4

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

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SAT	Math	Algebra	Linear inequalities in one or two variables	•••

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SAT	Math	Algebra	Linear inequalities in one or two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: af2ba762

According to data provided by the US Department of Energy, the average price per gallon of regular gasoline in the United States from September 1, 2014, to December 1, 2014, is modeled by the function F defined below, where F(x) is the average price per gallon x months after September 1.

F(x) = 2.74 - 0.19(x - 3)

- A. The average monthly decrease in the price per gallon
- B. The difference in the average price per gallon from September 1, 2014, to December 1, 2014
- C. The average price per gallon on September 1, 2014
- D. The average price per gallon on December 1, 2014

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: b9835972

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: b9835972

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: b9835972

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: b9835972

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: e1248a5c

In the system of equations below, a and c are constants.

$$\frac{1}{2}x + \frac{1}{3}y = \frac{1}{6}$$

$$ax + y = c$$

If the system of equations has an infinite number of solutions (x,y), what is the value of a?

A.
$$-\frac{1}{2}$$

B. 0

$$\frac{1}{c}$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

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SAT	Math	Algebra	Systems of two linear equations in two variables	•••

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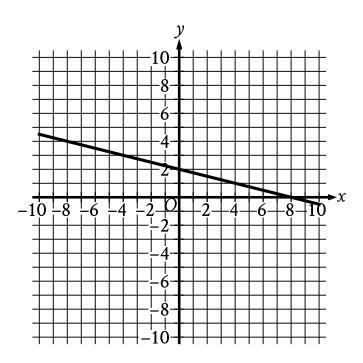
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 05bb1af9



A.
$$f(x)=-rac{1}{4}x-12$$

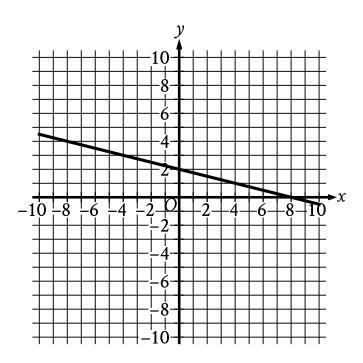
B.
$$f(x)=-rac{1}{4}x+16$$

C.
$$f(x)=-rac{1}{4}x+2$$

D.
$$f(x)=-rac{1}{4}x-14$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 05bb1af9



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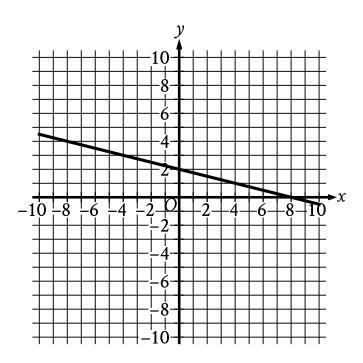
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 05bb1af9



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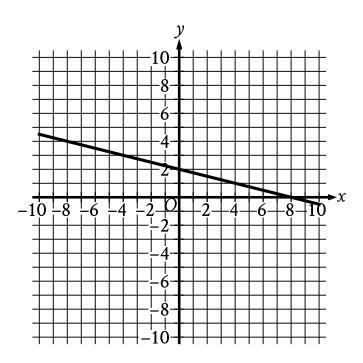
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SAT	Math	Algebra	Linear equations in two variables	•••

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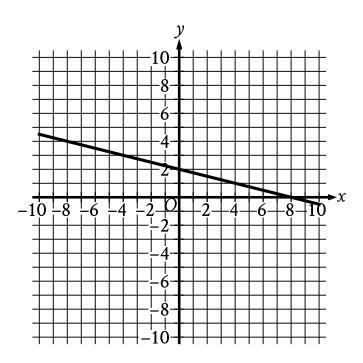
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: 52cb8ea4

$$7x - 5y = 4$$

$$4x - 8y = 9$$

- A. **-13**
- B. **−5**
- C. 5
- D. 13

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: 52cb8ea4

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SAT	Math	Algebra	Systems of two linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 0b46bad5

$$ax + by = b$$

In the equation above, a and b are constants and 0 < a < b. Which of the following could represent the graph of the equation in the xy-plane?

A.

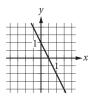


В.



C.





Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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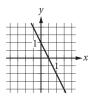


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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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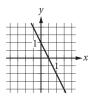


В.



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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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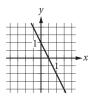


В.



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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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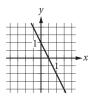


В.



C.

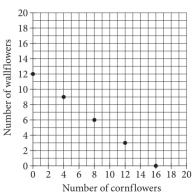




Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: c362c210

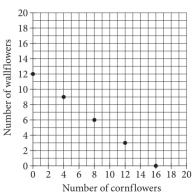
Number of Cornflowers and Wallflowers at Garden Store



Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: c362c210

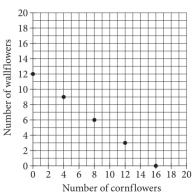
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: c362c210

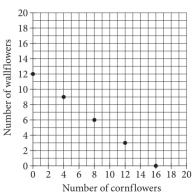
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: c362c210

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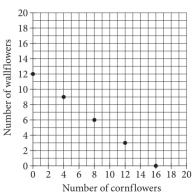


Question ID c362c210

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: c362c210

Number of Cornflowers and Wallflowers at Garden Store



The points plotted in the coordinate plane above represent the possible numbers of wallflowers and cornflowers that someone can buy at the Garden Store in order to spend exactly \$24.00 total on the two types of flowers. The price of each wallflower is the same and the price of each cornflower is the same. What is the price, in dollars, of 1 cornflower?

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 94b48cbf

- $A. -\frac{7}{2}$
- $\mathsf{B.}-\tfrac{2}{7}$
- C. $\frac{2}{7}$
- D. $\frac{7}{2}$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 94b48cbf

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: 50f4cb9c

\boldsymbol{x}	f(x)
1	-64
2	0
3	64

- A. **-64**
- B. **62**
- $\mathsf{C.}\ 128$
- D. **192**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: 16889ef3

A.
$$f(t) = \frac{21}{130}t + 4$$

B.
$$f(t) = \frac{19}{130}t + 4$$

$$f(t) = -\frac{21}{130}t + 4$$

$$\int_{D.} f(t) = -\frac{19}{130}t + 4$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: d7bf55e1

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: d7bf55e1

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: d7bf55e1

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: d7bf55e1

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: d7bf55e1

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 771bd0ca

$$5(t+3) - 7(t+3) = 38$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 771bd0ca

$$5(t+3) - 7(t+3) = 38$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 771bd0ca

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: 771bd0ca

$$5(t+3) - 7(t+3) = 38$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a309803e

A.
$$P=rac{w}{110}$$

в.
$$oldsymbol{P}=440 w$$

C.
$$P=rac{w}{220}$$

D.
$$P=220w$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a309803e

A.
$$P=rac{w}{110}$$

в.
$$oldsymbol{P}=\mathbf{440}oldsymbol{w}$$

C.
$$P=rac{w}{220}$$

D.
$$P=220w$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a309803e

A.
$$P=rac{w}{110}$$

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a309803e

A.
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a309803e

A.
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D.
$$P=220w$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: 55ea82f3

A.
$$140(x+3) + 220x \le 5{,}820$$

B.
$$140(x+3) + 220x \ge 5{,}820$$

C.
$$140(x-3) + 220x \le 5{,}820$$

D.
$$140(x-3) + 220x \ge 5{,}820$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: 55ea82f3

A.
$$140(x+3) + 220x \le 5{,}820$$

B.
$$140(x+3) + 220x \ge 5{,}820$$

C.
$$140(x-3) + 220x \le 5{,}820$$

D.
$$140(x-3) + 220x \ge 5{,}820$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: 55ea82f3

A.
$$140(x+3) + 220x \le 5{,}820$$

B.
$$140(x+3) + 220x \ge 5{,}820$$

C.
$$140(x-3) + 220x \le 5{,}820$$

D.
$$140(x-3) + 220x \ge 5{,}820$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: 55ea82f3

A.
$$140(x+3) + 220x \le 5{,}820$$

B.
$$140(x+3) + 220x \ge 5{,}820$$

C.
$$140(x-3) + 220x \le 5{,}820$$

D.
$$140(x-3) + 220x \ge 5{,}820$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: 55ea82f3

A.
$$140(x+3) + 220x \le 5{,}820$$

B.
$$140(x+3) + 220x \ge 5{,}820$$

C.
$$140(x-3) + 220x \le 5{,}820$$

D.
$$140(x-3) + 220x \ge 5{,}820$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 98d3393a

Line \mathcal{E} in the xy-plane is perpendicular to the line with equation

x = 2. What is the slope of line e?

A. 0

B.
$$-\frac{1}{2}$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 98d3393a

Line \mathcal{E} in the xy-plane is perpendicular to the line with equation

x = 2. What is the slope of line e?

A. 0

B.
$$-\frac{1}{2}$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 98d3393a

Line \mathcal{E} in the xy-plane is perpendicular to the line with equation

x = 2. What is the slope of line e?

A. 0

B.
$$-\frac{1}{2}$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 98d3393a

Line \mathcal{E} in the xy-plane is perpendicular to the line with equation

x = 2. What is the slope of line e?

A. 0

B.
$$-\frac{1}{2}$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 98d3393a

Line \mathcal{E} in the xy-plane is perpendicular to the line with equation

x = 2. What is the slope of line e?

A. 0

B.
$$-\frac{1}{2}$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear functions		

ID: 0b0fa68b

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear functions		

ID: 0b0fa68b

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear functions		

ID: 0b0fa68b

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear functions		

ID: 0b0fa68b

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Linear functions		

ID: 0b0fa68b

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: 6989c80a

$$F(x) = \frac{9}{5}(x - 273.15) + 32$$

- A. **3.78**
- B. **35.78**
- C. 487.89
- D. **519.89**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: 6989c80a

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: 6989c80a

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: 6989c80a

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	•••

ID: 6989c80a

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: e8f9e117



Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: e8f9e117



Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: e8f9e117



Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: e8f9e117



Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear inequalities in one or two variables	•••

ID: e8f9e117



Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a7e2859a

A.
$$y=215x+215$$

B.
$$y = 430x - 215$$

C.
$$y = 430x + 215$$

D.
$$y=215x+430$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a7e2859a

A.
$$y=215x+215$$

B.
$$y = 430x - 215$$

C.
$$y = 430x + 215$$

D.
$$y=215x+430$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a7e2859a

A.
$$y=215x+215$$

B.
$$y = 430x - 215$$

C.
$$y = 430x + 215$$

D.
$$y=215x+430$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a7e2859a

A.
$$y=215x+215$$

B.
$$y = 430x - 215$$

C.
$$y = 430x + 215$$

D.
$$y=215x+430$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear functions	

ID: a7e2859a

A.
$$y=215x+215$$

B.
$$y = 430x - 215$$

C.
$$y = 430x + 215$$

D.
$$y=215x+430$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: f718c9cf

$$5x + 14y = 45$$

 $10x + 7y = 27$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: f718c9cf

$$5x + 14y = 45$$

 $10x + 7y = 27$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: f718c9cf

$$5x + 14y = 45$$

 $10x + 7y = 27$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: f718c9cf

$$5x + 14y = 45$$

 $10x + 7y = 27$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: f718c9cf

$$5x + 14y = 45$$

 $10x + 7y = 27$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: 466b87e3

$$y = \frac{1}{2}x + 8$$

$$y = cx + 10$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: 466b87e3

$$y = \frac{1}{2}x + 8$$

$$y = cx + 10$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: 466b87e3

$$y = \frac{1}{2}x + 8$$

$$y = cx + 10$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: 466b87e3

$$y = \frac{1}{2}x + 8$$

$$y = cx + 10$$

Assessment	Test	Domain	Skill	Difficulty	
SAT	Math	Algebra	Systems of two linear equations in two variables	•••	

ID: 466b87e3

$$y = \frac{1}{2}x + 8$$

$$y = cx + 10$$

Question ID aee9fd2d

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: aee9fd2d

If $\frac{x+6}{3}=\frac{x+6}{13}$, the value of x+6 is between which of the following pairs of values?

- A. $\mathbf{-7}$ and $\mathbf{-3}$
- B. $\mathbf{-2}$ and $\mathbf{2}$
- C. ${f 2}$ and ${f 7}$
- D. **8** and **13**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: aee9fd2d

- A. $\mathbf{-7}$ and $\mathbf{-3}$
- B. $\mathbf{-2}$ and $\mathbf{2}$
- C. ${f 2}$ and ${f 7}$
- D. **8** and **13**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: aee9fd2d

- A. $\mathbf{-7}$ and $\mathbf{-3}$
- B. $\mathbf{-2}$ and $\mathbf{2}$
- C. ${f 2}$ and ${f 7}$
- D. **8** and **13**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: aee9fd2d

- A. $\mathbf{-7}$ and $\mathbf{-3}$
- B. $\mathbf{-2}$ and $\mathbf{2}$
- C. ${f 2}$ and ${f 7}$
- D. **8** and **13**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in one variable	•••

ID: aee9fd2d

- A. $\mathbf{-7}$ and $\mathbf{-3}$
- B. $\mathbf{-2}$ and $\mathbf{2}$
- C. ${f 2}$ and ${f 7}$
- D. **8** and **13**

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 0366d965

X	У
3	7
k	11
12	n

The table above shows the coordinates of three points on a line in the xy-plane, where k and n are constants. If the slope of the line is 2, what is the value of k+n

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 0366d965

X	У
3	7
k	11
12	n

The table above shows the coordinates of three points on a line in the xy-plane, where k and n are constants. If the slope of the line is 2, what is the value of k+n

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

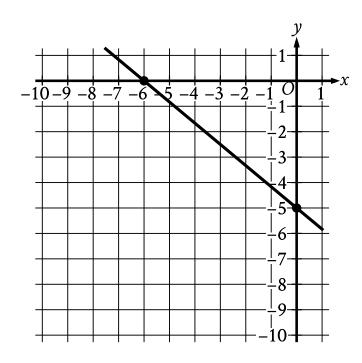
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3	7
k	11
12	n

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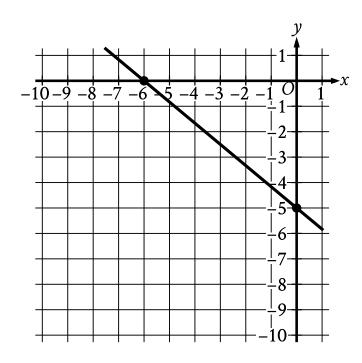
Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 6d8ad460



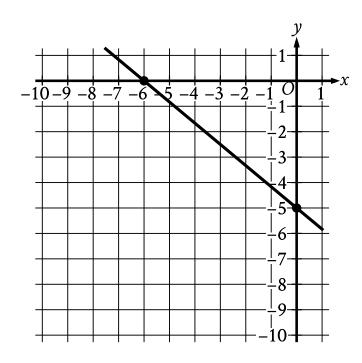
Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 6d8ad460



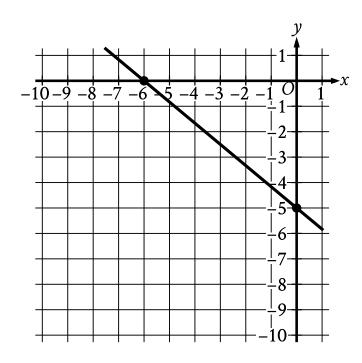
Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 6d8ad460



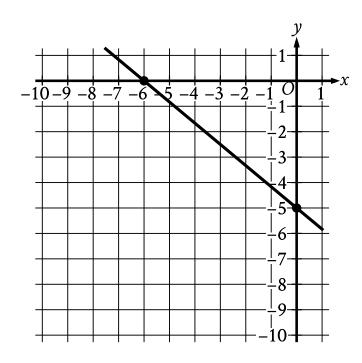
Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 6d8ad460



Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 6d8ad460



Assessment	Test	Domain	Skill	Difficulty	1
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	Ì

ID: 963da34c

A.
$$0 < x \le 10$$

B.
$$0 < x \le 11 \frac{2}{3}$$

$$0 < x \le 17 \frac{1}{2}$$

D.
$$0 < x \le 20$$

Assessment	Test	Domain	Skill	Difficulty	1
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	Ì

ID: 963da34c

A.
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$$0 < x \le 17 \frac{1}{2}$$

D.
$$0 < x \le 20$$

Assessment	Test	Domain	Skill	Difficulty	1
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	Ì

ID: 963da34c

A.
$$0 < x \le 10$$

B.
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$$0 < x \le 17 \frac{1}{2}$$

D.
$$0 < x \le 20$$

Assessment	Test	Domain	Skill	Difficulty	1
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	Ì

ID: 963da34c

A.
$$0 < x \le 10$$

B.
$$0 < x \le 11 \frac{2}{3}$$

$$0 < x \le 17 \frac{1}{2}$$

D.
$$0 < x \le 20$$

Assessment	Test	Domain	Skill	Difficulty	1
SAT	Math	Algebra	Linear inequalities in one or two variables	•••	Ì

ID: 963da34c

A.
$$0 < x \le 10$$

B.
$$0 < x \le 11 \frac{2}{3}$$

$$0 < x \le 17 \frac{1}{2}$$

D.
$$0 < x \le 20$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: e2e3942f

$$y = 2x + 1$$

$$y = ax - 8$$

A.
$$-\frac{1}{2}$$

- B. 0
- C. 1
- D. 2

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: e2e3942f

$$y = 2x + 1$$

$$y = ax - 8$$

A.
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- B. 0
- C. 1
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: e2e3942f

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- B. 0
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Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: e2e3942f

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$$y = ax - 8$$

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$$-\frac{1}{2}$$

- B. 0
- C. 1
- D. 2

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: e2e3942f

$$y = 2x + 1$$

$$y = ax - 8$$

A.
$$-\frac{1}{2}$$

- B. 0
- C. 1
- D. 2

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 2d54c272

$$5G + 45R = 380$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 2d54c272

$$5G + 45R = 380$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 2d54c272

$$5G + 45R = 380$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 2d54c272

$$5G + 45R = 380$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Linear equations in two variables	•••

ID: 2d54c272

$$5G + 45R = 380$$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: 1e0a46e4

$$\begin{array}{c} \text{A.} -2x + 3y = -9 \\ 2x - 3y = 9 \end{array}$$

B.
$$2x-3y=9$$
 $3x+4y=10$

C.
$$2x - 3y = 9$$

 $-6x + 9y = -27$

D.
$$-2x + 3y = 9$$

 $4x - 6y = 18$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: 1e0a46e4

$$\begin{array}{c} \text{A.} -2x + 3y = -9 \\ 2x - 3y = 9 \end{array}$$

B.
$$2x-3y=9$$
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C.
$$2x - 3y = 9$$

 $-6x + 9y = -27$

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 $4x - 6y = 18$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: 1e0a46e4

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$$2x-3y=9$$
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 $-6x + 9y = -27$

D.
$$-2x + 3y = 9$$

 $4x - 6y = 18$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: 1e0a46e4

$$\begin{array}{c} \text{A.} -2x + 3y = -9 \\ 2x - 3y = 9 \end{array}$$

B.
$$2x-3y=9$$
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$$2x - 3y = 9$$

 $-6x + 9y = -27$

D.
$$-2x + 3y = 9$$

 $4x - 6y = 18$

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Algebra	Systems of two linear equations in two variables	•••

ID: 1e0a46e4

$$\begin{array}{c} \text{A.} -2x + 3y = -9 \\ 2x - 3y = 9 \end{array}$$

B.
$$2x-3y=9$$
 $3x+4y=10$

C.
$$2x - 3y = 9$$

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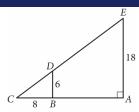
D.
$$-2x + 3y = 9$$

 $4x - 6y = 18$

Question ID dba6a25a

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	•••

ID: dba6a25a



In the figure above, \overline{BD} is parallel to \overline{AE} .

What is the length of $\overline{\textit{CE}}$?

Question ID c984f1a5

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Area and volume	•••

ID: c984f1a5

A hemisphere is half of a sphere. If a hemisphere has a radius of **27** inches, which of the following is closest to the volume, in cubic inches, of this hemisphere?

- A. **1,500**
- B. **6,100**
- C. **30,900**
- D. 41,200

Question ID acd30391

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Circles	•••

ID: acd30391

A circle in the xy-plane has equation $(x+3)^2 + (y-1)^2 = 25$. Which of the

following points does NOT lie in the interior of the circle?

Question ID 14e7c1f4

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	•••

ID: 14e7c1f4

For two acute angles, $\angle Q$ and $\angle R$, $\cos(Q)=\sin(R)$. The measures, in degrees, of $\angle Q$ and $\angle R$ are x+61 and 4x+4, respectively. What is the value of x?

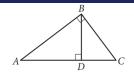
- $\mathsf{A.}\ 5$
- B. **19**
- C. 23
- D. **29**

Question ID 6a3fbec3

Assessment Test Domain Skill Difficulty

SAT Math Geometry and Trigonometry Lines, angles, and triangles

ID: 6a3fbec3



Note: Figure not drawn to scale.

In the figure above, BD = 6 and AD = 8.

What is the length of \overline{DC} ?

Question ID 25da87f8

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Right triangles and trigonometry	•••

ID: 25da87f8

A triangle with angle measures 30°, 60°, and 90° has a perimeter of $18+6\sqrt{3}$.

What is the length of the longest side of the triangle?

Question ID 459dd6c5

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Area and volume	•••

ID: 459dd6c5

Triangles ABC and DEF are similar. Each side length of triangle ABC is 4 times the corresponding side length of triangle DEF. The area of triangle ABC is 270 square inches. What is the area, in square inches, of triangle DEF?

Question ID 310c87fe

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Geometry and Trigonometry	Area and volume	•••

ID: 310c87fe

A cube has a surface area of 54 square meters. What is the volume, in cubic meters, of the cube?

- A. 18
- B. 27
- C. 36
- D. 81