- 1 Teresa wants to know what score she will need on her final exam in science to have an overall grade of 90.
  - Her final homework average is 87 and is worth 40% of her overall grade.
  - Her final quiz average is 94 and is worth 30% of her overall grade.
  - Her final test average is 89 and is worth 20% of her overall grade.
  - The final exam is worth 10% of her overall grade.

What score will Teresa need on her final exam to have an overall grade in science of exactly 90?

- A. 90
- B. 91
- C. 92
- D. 99

Master	r ID:	2114990 Revision:	3
Correc	et:	С	
Ration	ale:		
A.	This answe	r is the result of find	ding (87 + 94 + 89)/3.
В.	This answer is the result of using the median of the three averages, 89, and then solving $(89 + x)/2 = 90$ .		
C.	2. This answer is correct as follows: $87(.4) + 94(.3) + 89(.2) + 0.1x = 90 \rightarrow 80.8 + 0.1x = 90 \rightarrow x = 92.$		
D.	. This answer is the result of finding the sum of the points gained so far, 80.8, and then solving $(80.8 + x)/2 = 90$ .		
Rubric	:: 1 Poi	int(s)	
Standa	urds:		
	MGSE9-12.A	.CED.1	

- 2 Miyo works for an ice cream cart vendor. She receives \$25 for taking the cart out for a shift plus a commission of \$0.10 for each item she sells. Miyo worked a shift Saturday and earned \$52.90. Which equation can be used to solve for x, the number of items Miyo sold?
- A. 52.90 = 0.10 + x + 25
- B. 52.90 = 0.10x + 25
- C. 52.90 = 25x + 0.10
- D. 52.90x = 0.10x + 25

Master ID: 308146 Revision:

B

Correct:

Rationale:

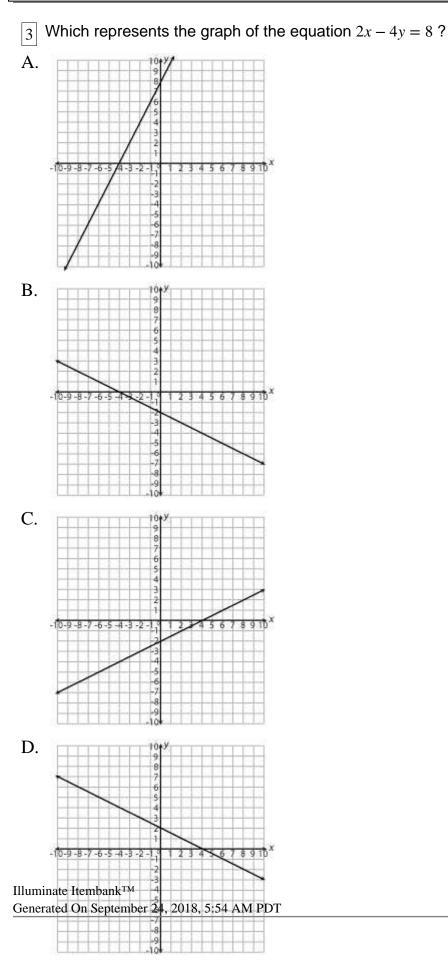
A. This answer results from including the commission rate and the number of items sold as separate addends instead of including their product.

5

- B. This equation sets the total earned (\$52.90) equal to the sum of the shift fee (\$25) and the commission (\$0.10 times *x*, the number of items sold).
- C. This answer switches the amount of the shift fee with the amount of the commission per item. It states that Miyo earns \$0.10 per shift plus \$25 for each item she sells.
- D. This answer mistakenly multiplies the total Miyo earned by the number of items sold. Rubric: 1 Point(s)

Standards:

MGSE9-12.A.CED.1



Master ID:	308201 Revision:	5
Correct:	С	
Rationale:		
•	•	ying 2 as the slope and 8 as the $y$ -intercept without
	his equation into slope	
B. This gra	ph results from mistak	kenly solving for the slope as a negative value.
C. Rewritir	ig the equation of the li	line in slope-intercept form gives $-4y = -2x + 8$ , $y =$
	<b>U</b>	and the y-intercept is $-2$ , which is represented in this
• •	ph results from using t	the wrong signs for the slope and $y$ -intercept.
0	1 Point(s)	
Standards:		
MOSEO	2.A.CED.2	

- A computer technician charges \$190 for a 3-hour appointment and \$370 for a 7-hour appointment. Which of these represents a linear function that models the charge for hiring the technician for x hours?
- A. y = 45x + 55
- B. y = 55x + 45
- C. y = 45x + 190
- D. y = 55x + 190

5 Master ID: 502027 Revision: Α Correct: Rationale: A. This is the result of first calculating the slope of the function by using the points (3, 190) and (7, 370). The slope is given by  $m = \frac{370 - 190}{7 - 3} = 45$ . The slope is substituted into the slope-intercept form of the linear equation to give y = mx + b or y = 45x + b. Plugging in the point (7, 370) gives b = 55, which means that the equation can be written as y = 45x + 55. B. This is the result of incorrectly switching the values of the slope and the y-intercept in the slope-intercept form of the linear equation, y = mx + b. C. This is the result of correctly calculating the slope of the given data points but incorrectly setting the *y*-intercept as equal to the technician's charge for 3 hours. Therefore, the slope-intercept form of the linear equation, y = mx + b, is defined as y = 45x + 190.D. This is the result of incorrectly first identifying the *y*-intercept of the linear function as the slope of the given data points. Then, the *y*-intercept is determined to be equal to the technician's charge for 3 hours. Therefore, the slope-intercept form of the linear equation, y = mx + b, is defined as y = 55x + 190. 1 Point(s) Rubric: Standards: MGSE9-12.A.CED.2

5 A trucking company charges a factory to deliver packages of its products. The total charges include the following.

- \$2 per package;
- \$3 per pound;
- The total of the charges must be at least \$500.

Which inequality models the situation, where *x* is the number of packages and *y* is the total weight in pounds?

- A.  $2x + 3y \ge 500$
- B.  $3x + 2y \ge 500$
- C.  $3x + 2y \le 500$
- D.  $2x + 3y \le 500$

Master	ID: 2235180 Revision: 3	
Correct	t: A	
Rationa	ale:	
A.	2x represents the charge in dollars for delivering x packages and $3y$ represents the	
	charge in dollars for delivering y pounds of packages. The total must be greater than	
	or equal to \$500.	
В	This answer switches the cost per package and the cost per pound.	
С.	C. This answer switches the cost per package and the cost per pound and uses the less the	
	than symbol instead of the greater than symbol.	
D.	This answer uses the less than symbol instead of the greater than symbol.	

Rubric: 1 Point(s)

Standards:

MGSE9-12.A.CED.3

6 The length (*l*) of a rectangle equals twice the width (*w*). The perimeter of the rectangle is 30 meters. Which system of equations represents this situation?

A. 
$$\begin{cases} l = 2w \\ 2l + 2w = 30 \end{cases}$$
  
B. 
$$\begin{cases} l = 2w \\ lw = 30 \end{cases}$$
  
C. 
$$\begin{cases} w = 2l \\ 2l + 2w = 30 \end{cases}$$
  
D. 
$$\begin{cases} w = 2l \end{cases}$$

$$\begin{array}{c} \mathbf{D}. \quad \left\{ \begin{array}{l} w = 2i \\ lw = 30 \end{array} \right. \end{array}$$

Master ID:	2274489 Revision:	3
Correct:	А	
Rationale:		
30 sh B. This r C. This r	ows that the perimeter is esults from using area in esults from switching the esults from switching the	
Rubric:	1 Point(s)	
Standards:		
MCSE	9-12.A.CED.3	

7 What value of x makes this equation true?

$$2(3x - 8) = 2(7x + 2)$$

A.  $x = -\frac{5}{2}$ B.  $x = \frac{5}{2}$ C.  $x = \frac{5}{4}$ D.  $x = -\frac{5}{4}$ 

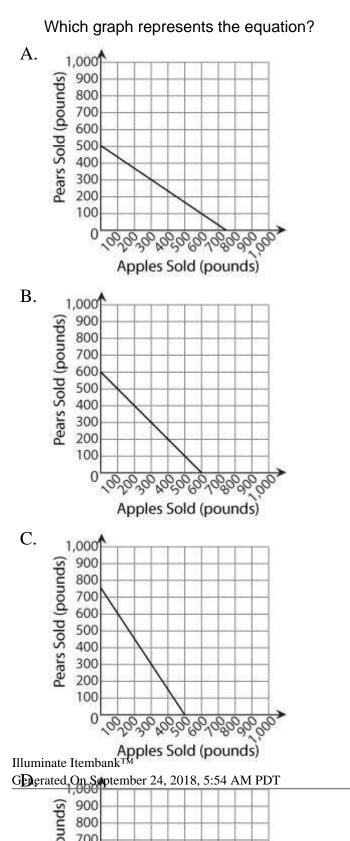
Master ID:	308373 Revision:	3
Correct:	А	
Rationale:		
A. This is	s the result of correctly s	solving the equation for $x$ :
2(3x -	$8) = 2(7x+2) \rightarrow 3x - 8$	$= 7x + 2 \rightarrow -10 = 4x \rightarrow x = -\frac{5}{2}$ .
B. This is	s the result of making a s	sign error.
	0	g the 2 to only the first term on each side of the
equat	ion.	
D. This is	s the result of distributing	g the 2 to only the first term on each side of the equation
and m	naking a sign error.	
Rubric:	1 Point(s)	
Standards:		
MGSES	)-12.A.REI.3	

- $\boxed{8}$  Which system of equations has an infinite number of solutions, where *a* and *b* are variables, and *c* is a constant?
- A.  $\begin{cases} 3a+b=c\\ 3a+b=c \end{cases}$ B.  $\begin{cases} 3a+b=c\\ 3a+b=-c \end{cases}$ C.  $\begin{cases} 3a+b=c\\ a+2b=-c \end{cases}$
- D.  $\begin{cases} a+3b = -c \\ 3a+b = -c \\ a+3b = -c \end{cases}$

Master	TD:	2230484 Revision:	3
Correc	et:	А	
Ration	ale:		
A.			tem describe the same line, so they have an infinite nus infinite solutions.
В.		n describes two lines intersect, thus havin	s having the same rate of change, so they are parallel og no solution.
C.	This answer has a single solution. Using the elimination method, multiply the second equation by $-3$ and add it to the first equation. The result is: $b = -c/2$ . Using that value for <i>b</i> in the second equation gives: $a = c/2$ . So, the solution for <i>a</i> and <i>b</i> is $(c/2, -c/2)$ .		
D.	This answer has a single solution. Using the elimination method, multiply the second equation by $-3$ and add it to the first equation. The result is: $b = -c/4$ . Using that value for <i>b</i> in the second equation gives: $a = -c/4$ . So, the solution for <i>a</i> and <i>b</i> is $(-c/4, -c/4)$ .		
Rubric	,	nt(s)	
Standa		· ·	
I	MGSE9-12.A	.REI.6	

9 At a fruit stand, apples sell for \$0.80 per pound and pears sell for \$1.20 per pound. One week, the stand sold \$600 worth of apples and pears. The equation below describes the situation, where a is the number of pounds of apples and p is the number of pounds of pears.

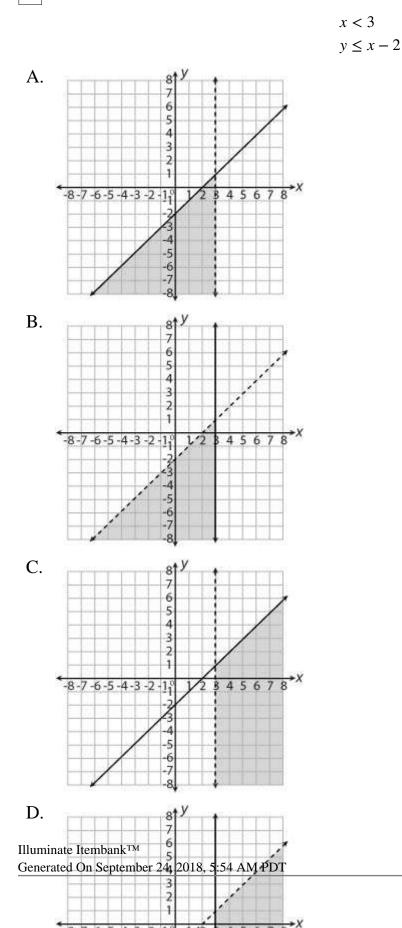
0.8a + 1.2p = 600



Continue: Turn to the next page. Page 10

		4	
Correct:	А		
Rationale:			
A. This a	nswer is correct, since 0.8a	+ $1.2p = 600$ is equivalent to $1.2p = -0.8a + 600$ ,	
and, d	ividing all terms by 1.2, is e	quivalent to $p = -(2/3)a + 500$ .	
B. This a	nswer is the result of ignorir	ng the equation, and thinking that the graph	
<ul><li>represents dollars worth of fruit sold, not pounds of fruit sold.</li><li>C. This answer is the result of ignoring the labels on the axes, and reversing the meaning of the two axes.</li></ul>			
correc	tly finding that $0.8a + 1.2p$ =	g an error when converting to slope intercept form: = 600 is equivalent to $1.2p = -0.8a + 600$ , but then ns by 1.2, getting $p = -0.8a + 500$ .	
Rubric:	1 Point(s)		
Standards:			
MGSE9	-12.A.REI.10		

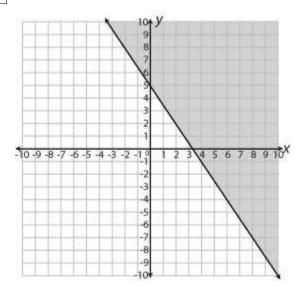
10 Which graph shows the solutions of this system of inequalities?



Continue: Turn to the next page. Page 12

Master ID:	2300512 Revision:	3	
Correct:	А		
Rationale:			
solid	line. The area between the	a dashed line. The line for $y = x - 2$ is graphed using a e lines, where the point (0, -4) is found, is shaded a make both inequalities true.	
<ul> <li>B. This is the result of interchanging the dashed and solid lines.</li> <li>C. This is the result of shading the wrong area.</li> <li>D. This is the result of interchanging the dashed and solid lines and of shading the wrong area.</li> </ul>			
Rubric:	1 Point(s)		
Standards: MGSE	9-12.A.REI.12		

11 Look at the graph below.



Which of these describes the graph?

A.	$y > -\frac{3}{2}x + 5$
B.	$y < -\frac{3}{2}x + 5$
C.	$y \ge -\frac{3}{2}x + 5$
D.	$y \le -\frac{3}{2}x + 5$

Master ID: 308515 Revision:

С

Correct: Rationale:

A. This answer results from using the greater than sign instead of the greater than or equal to sign, which is required since the line in the graph is solid, not dashed.

4

- B. This answer results from reversing the direction of the inequality sign and by not understanding that the solid line on the graph indicates an "or equal" inequality sign.
- C. This inequality passes through the same points at the inequality on the graph, including (0, 5), (-2, 8), and (4, -1). It is satisfied by points in the shaded area, indicating that the inequality sign is the right direction, and it correctly uses a greater than or equal to sign, which is indicated by the fact that the graph includes a solid line, not a dashed line.

D. This answer results from reversing the direction of the inequality sign.

Rubric: 1 Point(s) Standards:

MGSE9-12.A.REI.12

12 Consider this sequence generated by f(x).

x	1	2	3	4
f(x)	8	-4	-16	-28

What is the equation for f(x)?

A. f(x) = -12x + 20

$$\mathbf{B.} \quad f(x) = 8x - 4$$

C. 
$$f(x) = 20x - 12$$

D. f(x) = -4x + 8

Master	ID: 308582 Revision:	7	
Correct	: A		
Rationa	ıle:		
	5	irst term of the sequence and then produces term 2 in the coefficient of the variable term.	s that
В.	•	of the function are determined by the first and seco d -4), but this function does not generate the sequ	
	The -12 appears to be correct	ct, given that it is the amount of change from term e switched in the function (-12 should be the coeffic	to term,
		on is determined by the first and second terms of the function does not generate the sequence.	ne
Rubric:	1 Point(s)		
Standar	rds:		
Ν	IGSE9-12.F.IF.3		

13 How can the equation below be rewritten to solve for c?

a = b + cx

A. 
$$c = \frac{a-b}{x}$$
  
B.  $c = \frac{a}{x} - b$   
C.  $c = a - b - x$   
D.  $c = (a-b)x$ 

Master	r ID:	308290 Revision:	4
Correc	et:	А	
Ration	ale:		
A.	This answe	r is correct: subtrac	t b from both sides, then divide by x to solve for c.
В.	This is the	result of dividing the	e left side and the $c$ by $x$ , then subtracting $b$ from both
	sides.	_	
C.	This is a re	sult of subtracting x	$\alpha$ from both sides instead of dividing both sides by $x$ .
D.	This is the	result of multiplying	both sides by x instead of dividing them by $x$ .
Rubric	:: 1 Poi	int(s)	
Standa	ırds:		
	MGSE9-12.A	CED.4	

14 The perimeter of a rectangle is given by the formula P = 2(l + w). Which formula gives w in terms of *P* and *l*?

A. 
$$w = \frac{P}{2} - l$$

$$\mathbf{B}. \quad w = P - 2l$$

C. 
$$w = \frac{P}{2} + l$$

D. 
$$w = P + 2l$$

Master ID: 2292919 Revision:

Α

Correct:

Rationale:

A. Divide both sides of the formula by 2 to get P/2 = l + w. Then subtract *l* from both sides to get w = P/2 - l.

3

- B. This results from removing the parentheses incorrectly to get P = 2l + w, then solving for *w*.
- C. This results from adding *l* to the right side of the equation instead of subtracting it.
- D. This results from removing the parentheses incorrectly to get P = 2l + w, then solving incorrectly for *w*.

Rubric: 1 Point(s) Standards:

MGSE9-12.A.CED.4

15 Jane needs to solve this equation for x.

$$2x - 8 = 20$$

Which would be the best first step Jane could make to solve the equation?

- A. add 8 to both sides of the equation
- B. subtract 8 from the left side of the equation

C. divide 2x by 2

D. divide both sides of the equation by 20

Master	r ID:	1819416 Revision:	4
Correc	et:	А	
Ration	ale:		
A.		n one side and all	adding 8 to both sides of the equation would get all the the $x$ -terms on the other side, so Jane could divide by 2
В.	8 on the lef		owing that something needs to be done to get rid of the on, but not using the correct operation and changing
C.		ut of order and not	partial understanding of the steps to solve, but getting understanding that everything needs to be done to both
D.		equation, but failin	derstanding that operations need to be applied to both ng to understand which operations would be most helpful
Rubric	: 1 Poi	nt(s)	
Standa	urds:		
1	MGSE9-12.A.REI.1		

16 Yasmine buys 6 bananas and a loaf of bread.

- The bread cost \$4.00.
- The total cost was \$5.50.

She writes this equation, where *b* represents the cost of one banana.

6b + 4 = 5.5

What is the first step Yasmine should make in order to solve the equation for *b* ?

- A. subtract 4 from both sides of the equation
- B. subtract 6b from both sides of the equation
- C. divide 6b by 6
- D. add 4 to the right side of the equation

Master	r ID: 941736 Revision: 3
Correc	et: A
Ration	ale:
A.	This answer is correct since it will lead to getting the constants on one side of the equation and the variable term on the other side of the equation, so the answer can be found by dividing by 6.
В.	This answer is the result of understanding that the same things need to be done on both sides of the equation, but not understanding which steps will most help find the solution.
C.	This answer is the result of not understanding that the same steps must be applied on both sides of the equation.
D.	This answer is the result of not understanding that the same steps must be applied on both sides of the equation.
Rubric	2: 1 Point(s)
Standa	ards:
I	MGSE9-12.A.REI.1

17 The solution set of which inequality contains the number -4?

A.  $5x + 8 \ge -17$ B.  $\frac{1}{5}x + 3 \le 2$ C. 3x + 7 < -5D.  $\frac{1}{2}x - 1 > -3$ 

Correct: A Rationale: A. Substituting –4 into the left side of the inequality gives –12, which is greater than –1		
$\Delta$ Substituting -4 into the left side of the inequality gives -12 which is greater than -1		
<ul> <li>B. Substituting -4 into the left side of the inequality gives -12, which is greater than 2</li> <li>B. Substituting -4 into the left side of the inequality gives -12, which is greater than 2</li> <li>C. Substituting -4 into the left side of the inequality gives -5, which is not less than -5</li> <li>D. Substituting -4 into the left side of the inequality gives -3, which is not greater than 3.</li> </ul>		
Rubric: 1 Point(s)		
Standards:		
MGSE9-12.A.REI.3		

18 A system of equations is shown below.

$$\begin{cases} x - 3y = 1\\ 5x + 2y = 4 \end{cases}$$

Which of the following describes two possible first steps in correctly solving the system using the elimination method?

- A. Multiply the first equation by –5 and then add the two equations.
- B. Multiply the first equation by -4 and then add the two equations.
- C. Add –5 to the first equation and then add the two equations.
- D. Add 1 to the second equation and then add the two equations.

Master ID	2: 308444 Revision: 4		
Correct:	A		
Rationale:			
	his procedure results in the elimination of the $x$ terms, leaving one equation that can e solved for $y$ .		
B. This procedure will produce a zero sum on the right side of the equations, but will not eliminate either variable.			
C. T	his adds -5 to the first equation instead of multiplying by -5.		
Rubric:	1 Point(s)		
Standards:			
MGSE9-12.A.REI.5			

A children's playground will be shaped like a rectangle with a perimeter of 86 meters. The length of the rectangle must be 1.6 times the width. The system of equations below can be solved for x, the width in meters, and y, the length in meters.

$$\begin{cases} y = 1.6x \\ 2x + 2y = 86 \end{cases}$$

Which equation can best be used to determine the width of the playground?

4

- A. 2x + 3.2x = 86
- B. 2x + 3.6x = 86
- C. 2x = 86 2y

D. 
$$x = \frac{y}{1.6}$$

540066 Revision:

Α

Master ID: Correct:

Rationale:

- A. Substituting the first equation into the second equation gives 2x + 2(1.6x) = 86, or 2x + 3.2x = 86. This equation can then be solved to find the value of *x*.
- B. This is the result of adding 1.6 + 2 instead of multiplying  $1.6 \times 2$  when simplifying the equation.
- C. This is the result of simply subtracting 2*y* from both sides in the second equation.
- D. This is the result of simply solving the first equation for *x*.

Rubric: 1 Point(s)

Standards:

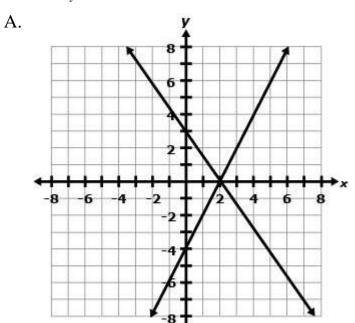
MGSE9-12.A.REI.5

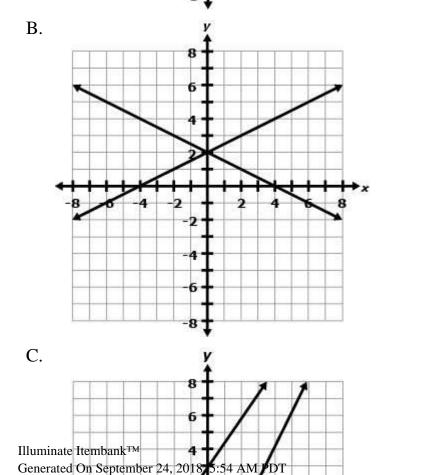
# 20 **TEACHER READS**:

Read the question to yourself and select the best answer.

Which of the following graphs BEST represents the system of equations?

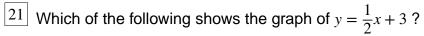
2y = 4x - 83x + 2y = 6

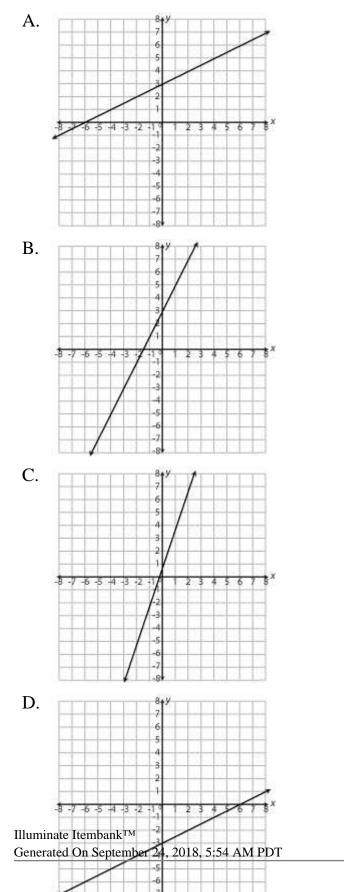




Continue: Turn to the next page. Page 24

Master ID:	3291931 Revision: 1	
Correct:	A	
Rationale:		
A. Correc	ct answer	
	nt(s) may have solved incorrectly and picked the graph of the intersection of $y = +2$ and $y = 2x + 2$ .	
	nt(s) likely missed the slope of the second equation and thought it was $3/2$ d of $-3/2$ .	
D. Studer	nt(s) likely reversed the rise and the run in the two slopes.	
Rubric:	1 Point(s)	
Standards:		
MGSE9-12.A.REI.6		

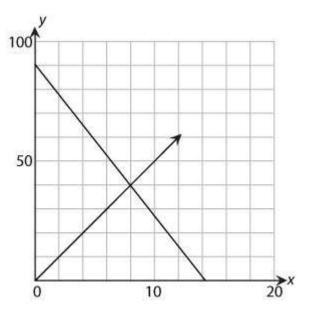




Continue: Turn to the next page. Page 26

Master ID:	332656 Revision:	4
Correct:	А	
Rationale:		
A. This co	rectly shows the equa	tion with the y-intercept at $(0, 3)$ and the slope at $1/2$ .
B. This gra	where the presents $y = 2x$	+ 3.
C. This is t	he result of switching t	the values for the slope and v-intercept.
D. This is t	he result of switching t	the sign from addition to subtraction.
	1 Point(s)	5
Standards:		
MGSE9-12.A.REI.10		

The coordinate grid below shows the graph of supply and demand functions for the sales of a certain video game. For the functions, x represents the number of video games sold, in thousands of units, and y represents the price, in dollars, of each game.



The equilibrium point for the supply and demand functions can be found by locating the point where the two functions are equal. Which of these appears to be the number of video games, in thousands, that must be sold to achieve equilibrium?

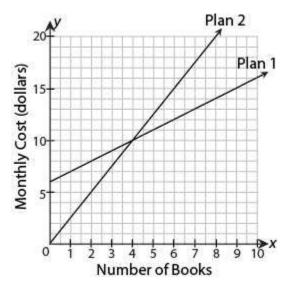
- A. 6
- B. 8
- C. 14
- D. 90

Master ID:	941759 Revision:	3		
Correct:	В			
Rationale:				
A. This is a re	sult of using the -6	slope for one of the functions.		
B. This is a re	sult of understandin	ng that the x-value of the point of intersection represents		
the solutior	the solution, which appears to be closest to 8.			
		ntercept of the line segment with negative slope.		
	-	proximate y-value of the point of intersection.		
Rubric: 1 Po	int(s)			
Standards:				
MGSE9-12.A.REI.11				

Pat is choosing between two different plans to buy electronic books for her tablet.

- Plan 1 costs \$6 per month plus an additional \$1 per book.
- Plan 2 has no monthly fee but each book costs \$2.50.

The system of equations graphed on the coordinate plane below shows the total monthly cost, y, for each plan, based on the number of books, x, Pat buys in one month.



Which of these statements are true? Choose all that are correct.

- A. The costs of both plans are the same if Pat purchases 10 books a month.
- B. The costs of both plans are the same if Pat purchases 4 books a month.
- C. Solving the equation 6 + y = 2.5y will give the total cost when the two plans cost the same.
- D. The intersection of the lines f(y) = 6 + y and g(y) = 2.5y represents the number of books when the costs for the two plans are equal.
- E. The intersection of the lines f(x) = 6 + x and g(x) = 2.5x represents the number of books when the costs for the two plans are equal.
- F. Solving the equation 6 + x = 2.5x will give the *x*-coordinate for the point of intersection of the two lines on the graph.

Master ID:	2115291 Revision: 2
Correct:	BEF
Rationale:	DEA
	the incorrect result of using the <i>y</i> -coordinate of the point of intersection as the
numbe	er of books, when it is actually the cost of the plan.
B. This is	s correct because the two lines intersect when the number of books is 4. It is
	the solution to the equation $6 + x = 2.5x$ .
	nswer is incorrect, since it uses y instead of $x$ for the equations.
	nswer is incorrect, since it uses y instead of $x$ for the equations.
	tersection of the two lines is the point where the two equations are equal.
	quation on the left hand side is the cost of Plan 1; the equation on the right hand the cost of Plan 2. Setting the two equal will give the number of books
	ased for which the cost of the two plans is equal. This is the same as the $x$ -
•	nate of the point of intersection of the two lines on the graph.
Rubric:	1 Point(s)
Standards:	
MGSE9	-12.A.REI.11
	et of x- and y-coordinate pairs is NOT a function?
	1), (1, -1), (2, 4), (2, -4)
	15), (6, 18), (7, 21), (10, 30)
C. $(-2,4), ($	(2,4), (-1,1), (1,1), (0,0)
D. $(-2, -2)$	2), (-1, -2), (0, -2), (1, -2), (2, -2)
Master ID:	1819374 Revision: 4
Correct:	A
Rationale:	must be only one output value for each input value for the relationship to be a
	on. Since $(1, 1)$ and $(1, -1)$ represent two outputs for the same input, this set is
	function.
B. This sł	hows missing coordinate pairs (e.g., no coordinate pair for $x = 1$ ) that may be
	ned to make the relationship one that can't be represented by a function.
	hows coordinate pairs with some common output values. But, there is still only
	utput value for each input value which meets the requirement for the points to be
•	sented by a function.
	ncludes coordinate pairs with the same output value, which is assumed to show ionship that can't be represented by a function. But, there is still only one outpu
	for each input value.
Desta at as	1 Doint(a)

1 Point(s)

MGSE9-12.F.IF.1

Rubric:

Standards:

25	TEACHER READS:	

Read the question to yourself and select the best answer.

# If f(x) = 4x - 11, what is the value of f(5)?

- A. 20x 55
- B. 34
- C. 9
- D. 4

Master ID:	3270255 Revision: 1
Correct:	С
Rationale:	
A. Student(s)	may have mistakenly thought they should multiply the expression by 5.
· · ·	may have interpreted $f(5)$ to mean change $4x$ to 45 (instead of the product
of 4 and 5	
C. Correct an	iswer
D. Student(s)	may have misinterpreted the problem to be asking what value of x would
solve $5 = 4$	4x – 11
Rubric: 1 P	pint(s)
Standards:	
MGSE9-12.	F.IF.2

26 Which function models the sequence -5, -7, -9, -11, ...?A. g(x) = -2x - 3B. g(x) = -3x - 2C. g(x) = -4x - 1

D. g(x) = -5x - 2

Master ID:	308898 Revision:	4	
Correct:	А		
Rationale:			
the		ms of the sequence is $-2$ . The function is linear, and unction generates the terms of the sequence when $x =$	
B. Th ge	B. This function resembles the correct function, which has the numbers -2 and -3, and it generates the first term of the sequence. The difference between the terms is -2, however, which means -2 should be the coefficient in the function, not the constant.		
	nis function generates the firs	t term, and the numbers add to -5, but this function ce.	
		(-5) matches the first term, and the sum of numbers in ion does not generate the sequence.	
Rubric:	1 Point(s)		
Standards:			
MG	SE9-12.F.BF.2		

- A Law Firm charges \$1,200 for an initial consultation and then \$180 per hour of work. Which expression can be used to determine the cost of hiring the firm for h hours of work?
- A. 1200 + 180*h*
- B. 1200h + 180
- C. 1380h
- D. 180*h* 1200

Master	ter ID: 308850 Revision: 4		
Correct	ect: A		
Rationa	onale:		
	. This expression gives the initial consultation fee (\$12 times the number of hours worked.	00) plus the hourly rate (\$180)	
	. This expression is based on the assumption that the hourly rate is \$1200 instead of \$180.		
	C. This expression adds the two values (\$1200 and \$180) and uses this sum as the hourly rate.		
	. This expression includes the correct term for the cost that the total cost for hiring the firm does not include consultation.		
Rubric:	ric: 1 Point(s)		