Accelerated Geometry CC Pretest

	elesi	
Sele	ect the best answe	r.
1.	Solve 8 <i>x</i> – (2x + 3)	= 4x + 1.
	$F -\frac{1}{3}$	H 2
	G –1	J 4
2.	Which expression r perimeter of the tria	epresents the ingle below?
	3 <i>m</i> 4 - <i>n</i>	ו
	2 <i>m</i> – 1	
	A 3+4 <i>m</i>	C 5 + 4 <i>m</i>
	B 3+6 <i>m</i>	D 5 + 6 <i>m</i>
3.	The time it takes Ja	rvis to get to school
	on his bike is $\frac{1}{3}$ of	the time it takes to
	walk. Which equation find the time it takes school if he can bik	on can be solved to s Jarvis to walk to e there in 5 minutes?
	A $3w = 5$	$C \frac{1}{3}w = 5$
	B $w = \frac{1}{3} \times 5$	D $w - \frac{1}{3} = 5$
4.	Solve $-\frac{x}{7} - \frac{2}{3} = \frac{4}{2}$	_ 1
	F -6	H $1\frac{1}{3}$
	G $-1\frac{1}{3}$	J 6
5.	Which equation des passes through (7,	cribes a line that 1) and is perpendicular
	to the line described	d by $y = -\frac{1}{2}x + 3?$
	A $y = 2x - 13$	C $y = 2x - 6$
	B $y = 2x - 7$	D $y = 2x + 3$

Name	
------	--

~··· _		
6.T	he points {(-2, 1) graph of function coordinates of th a vertical stretch F {(-4, 1), (0,	, (0, 3), (1, 2)} are on the n f. What are the nese three points after n by a factor of 2? 3), (2, 2)}
	$G\left\{\left(-2,\frac{1}{2}\right),\left(-2,\frac{1}{2}\right)\right\}$	$(1, \frac{3}{2}), (1, 1)$
	H $\left\{ (-1, 1), (0, \right\}$	$3), \left(\frac{1}{2}, 2\right) \right\}$
	J {(-2, 2), (0,	6), (1, 4)}
7.	Which is NOT a $4x - 7 < 5$?	solution to the inequality
	A –2	C 1
	B 0	D 3
8.	Lorena and Seb years old. Every a cash present f Sebastian gets his age, and Lor will they be whe money than Lor	astian are both five year they each get rom their neighbor. \$1.50 for every year in rena gets \$20. How old n Sebastian gets more ena?
	F 9	H 14
	G 13	J 20
9.	Which of these of transformation in	describes the n terms of <i>f</i> (<i>x</i>)?
	Horizontal trans	ation 6 units left
	A $f(x)-6$	C $f(x+6)$
	B -6f(x)	D $f(x-6)$

Original content Copyright © by Holt, Rinehart and Winston. Additions and changes to the original content are the responsibility of the instructor.

Name ___ Date _ Class 10.Which situation best fits the graph below and what type of correlation is it? F distance traveled vs. cost of gas; negative correlation G distance traveled vs. cost of gas; positive correlation H time traveled vs. distance from destination; negative correlation J time traveled vs. distance from destination; positive correlation 11. A function has x-intercept 3 and *y*-intercept 2. Which of the functions below could be this function? A 4 + 3x = 2yB 2x - 3y = -6C 2y + 3x = 4

12. The scoring for a football game by quarters was recorded as the ordered pairs {(1, 7), (2, 10), (3, 21), (4, 21}. Which of the following statements is true?

D 3y - 6 = -2x

- F The relation is a function with domain $\{1, 2, 3, 4\}$.
- H he relation is a function with domain $\{7, 10, 21\}.$
- G The relation is a not a function.
- J The relation is a function with domain $\{1 \le x \le 4\}$.

C 28 D 29

13. A local video store has two new renting plans. Plan A charges a \$10 monthly fee and \$2 for every movie rented.Plan B charges \$40 per month but then each movie rented is only 25¢. How many movies must be rented in a month to make plan B the cheaper option?

B 18

14.Classify the system $\begin{cases} y = 2x + 3\\ y = -2x + 3 \end{cases}$

F inconsistent

- G consistent and independent
- H inconsistent and dependent
- J consistent and dependent

15. Which point is a solution of
$$\begin{cases} y-3x \ge 2\\ y \le x+9 \end{cases}$$
?

A (-2, 8)	C (4, -1)
B (-1, 4)	D (8, -2)

16. Which of the following is NOT equivalent

to
$$\left(\frac{x^2y}{4x^5}\right)^{-2}$$
?
A $\left(\frac{y}{4x^3}\right)^{-2}$ C $\left(\frac{16x^5}{y^2}\right)$
B $\left(\frac{4x^3}{y}\right)^2$ D $\left(\frac{4x^5}{x^2y}\right)^2$

 $\ensuremath{\mathbb{C}}$ Houghton Mifflin Harcourt Publishing Company

17. Ava's class was surveyed to help figure out what color their school banner should be. If a total of 28 students were surveyed, how many chose green?

School Banner



Customers	10	12	20	24
Sundaes	60	70	118	148
F $y \approx 6.24x - 4.0$ H $y \approx 6.82x - 11.0$				
G $y \approx 6.0x - 1.3$ J $y \approx 4.0x - 48.7$				

Houghton	Mifflin	Harcourt	Publishing	Company

19. What is the 5th term in the geometric sequence 96, 72, 54, ...?

A 30 C 36
B
$$30\frac{3}{8}$$
 D $40\frac{1}{2}$

- 20. Which two quadrants is the function $f(x) = 2(4)^x$ graphed in?
 - F Quadrants I and II
 - G Quadrants II and III
 - H Quadrants III and IV
 - J Quadrants I and IV
- 21. Which function has the higher rate of change over the interval [0, 3]?

A y=2x+4C $y=2x^2-1$ B y=-x-3D $y=2(3)^x$

22. What is the *x*-value for the solution to the system of equations below?

$$2x + y = 8$$

 $-4x - y = -14$
A -3 C 3

B –2 D 4

23. A research biologist starts with 100 bacteria and watches it double in number each day. Which equation will give the number of bacteria as a function of *x*, the number of days?

F
$$y = 2^{x}$$

G $y = 100^{x}$
H $y = 2(100)^{x}$
J $y = 100(2)^{x}$

41. B