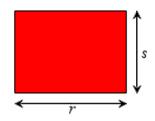
	gebra A INA176	lssessm	ent		Teachers Teaching with Technology " Professional Development from Texas Instruments				
Nam	e:				8				
	7 8 9 10	11 12	Navigator	Assessment	Student 30 min				
Q.1.	If $y = 2x + 1$ a	nd $x = 1$ then y is e	qual to:						
	a) 1	b) 2	c) 3	d) 4	e) 5				
Q.2.	If $a = 4b - 3a$	and $b = 2$ then <i>a</i> is	equal to:						
	a) 1	b) 5	c) 8	d) 11	e) 39				
Q.3.	If $y = 20 - 3x$	and $x = 2$ then y is	equal to:						
	a) 2	b) 6	c) 14	d) 26	e) 34				
Q.4.	A number is m process:	ultiplied by 5 and 3	is added to the resul	t. Which expressior	best represents this				
	a) 5 + 3	b) $5+a+3$	c) $\times 5 + 3$	d) $3x+5$	e) $5x+3$				
Q.5.	A quantity a is multiplied by 4 and then 2 is subtracted. Write this as an expression.								
	Answer:								
Q.6.		••		14d)26e)34o the result. Which expression best represents this $\times 5+3$ d) $3x+5$ e) $5x+3$ subtracted. Write this as an expression.nas. Let a represent the quantity of apples and b the terms of a and b for the total amount of fruit in theand girls (g). Write an equation for the number of					
	Answer:								
Q.7.	There are 24 students in a class of boys (b) and girls (g). Write an equation for the number of girls in the class, start your equation with g =								
	Answer:								

- Answer:
- Q.8. Use *r* and *s* to write an **equation** for the **perimeter** of the rectangle shown opposite.Start your equation with *p* =



Answer:

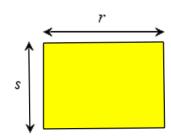
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Q.9. Use *r* and *s* to write an **equation** for the **area** of the rectangle shown opposite.

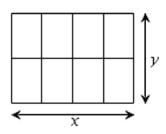
Start your equation with *a* =



Answer:

Q.10. A wooden frame is made as shown. Write an **equation** for the **total** length of wood (*w*) in terms of the lengths *x* and *y*.

Start your equation with *w* =



2

7

3

9

Answer:

Q.11. Write an equation relating the numbers in row *a* and *b*.Start with *b* =

Answer:

Q.12. Write an equation relating the numbers in row **c** and **d**. Start with **d** =

с	0	2	5	9
d	5	11	20	32

1

5

0

3

а

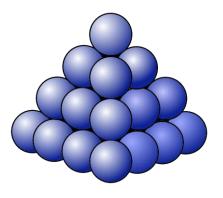
b

Answer:

Q.13. The ball pyramid shown has 4 levels. The total number of balls in any such pyramid of *p* levels is equal to:

$$\frac{p \times (p+1) \times (2p+1)}{6}$$

How many balls in a pyramid 10 balls high?



Answer:

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