



Practice Items

High School

Mathematics

Examiner's Copy
and
Student Materials

Virginia Department of Education

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Item 1	<i>Option:</i>			<i>Student Response</i>
	A	B	C	
Here is an equation with the variable d. (Point to student materials.) This says 6 minus d equals 0. Solve for d. Six minus what number equals 0? 0, 6, or 10	0	6	10	

Item 2	<i>Option:</i>			<i>Student Response</i>
	A	B	C	
Ava has 4 blocks. (Point to student materials.) She gives 2 of her blocks to Isaac. How many blocks does Ava have left? $4 - 2 = 2$, $4 - 0 = 4$, or $6 - 2 = 4$	$4 - 2 = 2$	$4 - 0 = 4$	$6 - 2 = 4$	

Item 3	<i>Option:</i>			<i>Student Response</i>
	A	B	C	
Here is a number to the first power. (Point to student materials.) A number to the first power equals itself. What is 15 to the first power? 1, 15, or 20	1	15	20	

Item 4	<i>Option:</i>			<i>Student Response</i>
	A	B	C	
Paula has two dollars. (Point to student materials.) She gets two dollars for recycling cans and another two dollars for sweeping floors. Which equation shows how much money Paula has altogether? $2 + 3 + 5 = 10$, $2 + 2 + 2 = 6$, or $2 + 2 + 3 = 7$	$2 + 3 + 5 = 10$	$2 + 2 + 2 = 6$	$2 + 2 + 3 = 7$	

Item 5	<i>Option:</i>			<i>Student Response</i>
	A	B	C	
Here is an equation with the variable x. (Point to student materials.) This says 3 times x equals 12. Solve for x. What number times 3 equals 12? 3, 4, or 10	3	4	10	

Item 6

Option:

Here is a line graph of the relationship between ice cream sales and temperature. (Point to student materials.) Does the line show that hotter days lead to more ice cream sales, fewer ice cream sales, or the same ice cream sales? more ice cream sales, fewer ice cream sales, or the same ice cream sales

A	B	C	Student Response
more ice cream sales	fewer ice cream sales	the same ice cream sales	

Item 7

Option:

Here is an output table showing what happens to y when x equals 1, 2, 3, 4, and 5. (Point to student materials.) $Y = 10X$. What is the value for Y when X equals 3? 10, 20, or 30

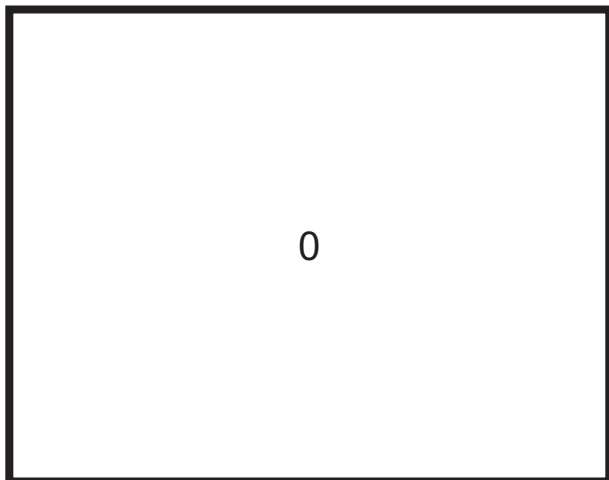
A	B	C	Student Response
10	20	30	

Item 1

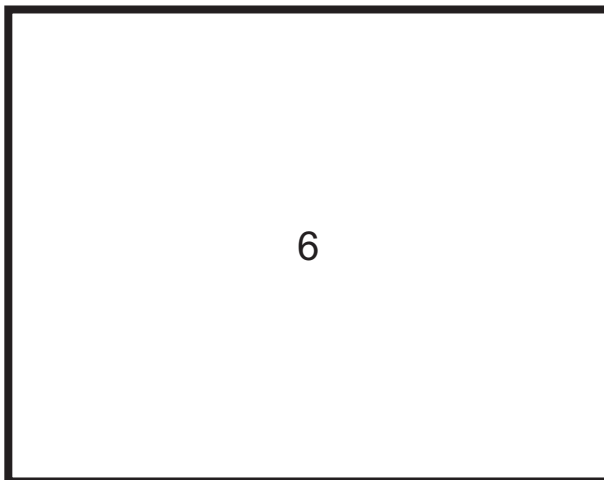
$$6 - d = 0$$

Solve for d.

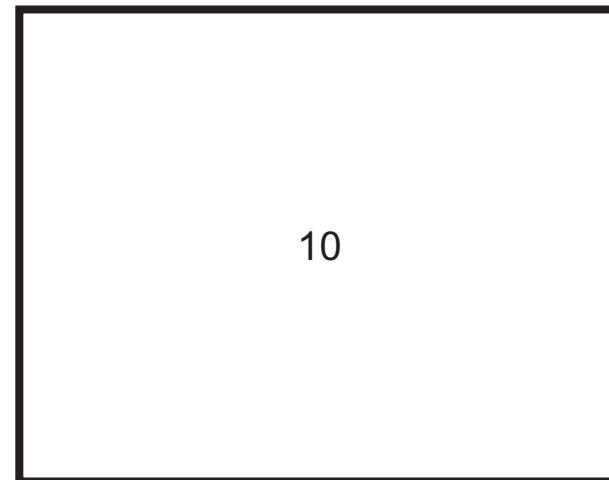
Six minus what number equals 0 ?

A rectangular box with a black border, containing the number 0 in the center.

A

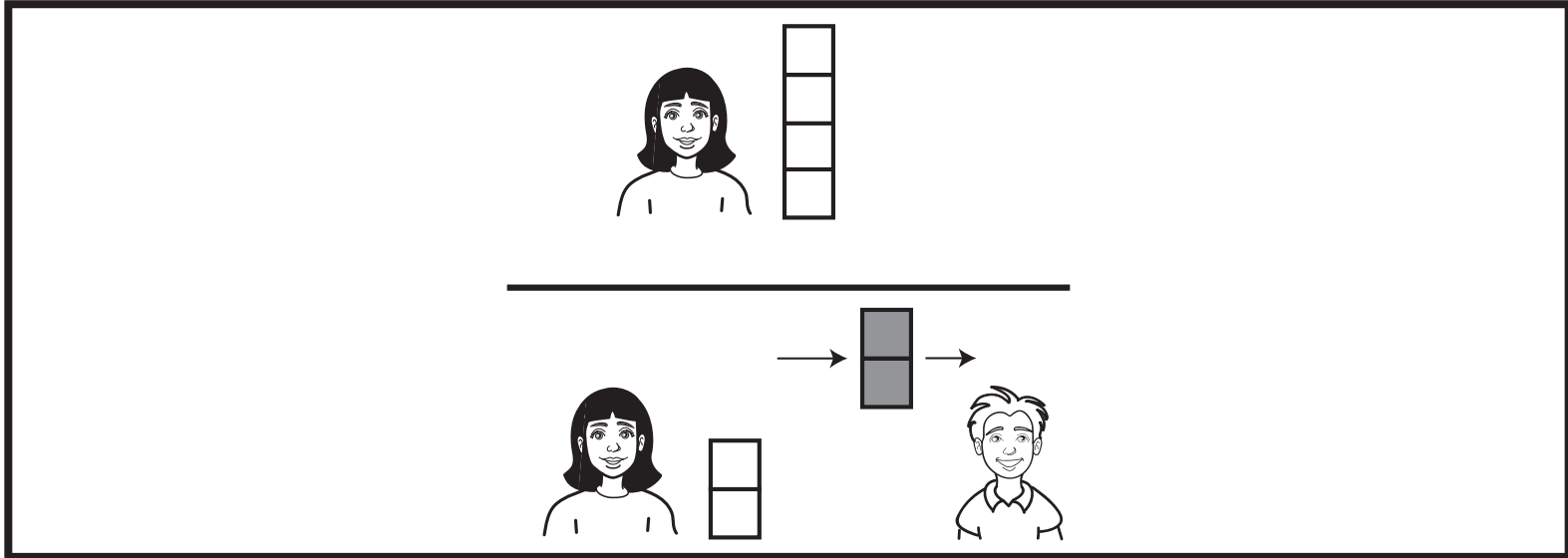
A rectangular box with a black border, containing the number 6 in the center.

B

A rectangular box with a black border, containing the number 10 in the center.

C

Item 2



How many blocks does Ava have left?

$$4 - 2 = 2$$

A

$$4 - 0 = 4$$

B

$$6 - 2 = 4$$

C

Item 3

$$15^1 = \underline{\quad?}$$

A number to the first power equals itself. What is 15 to the first power?

1

A

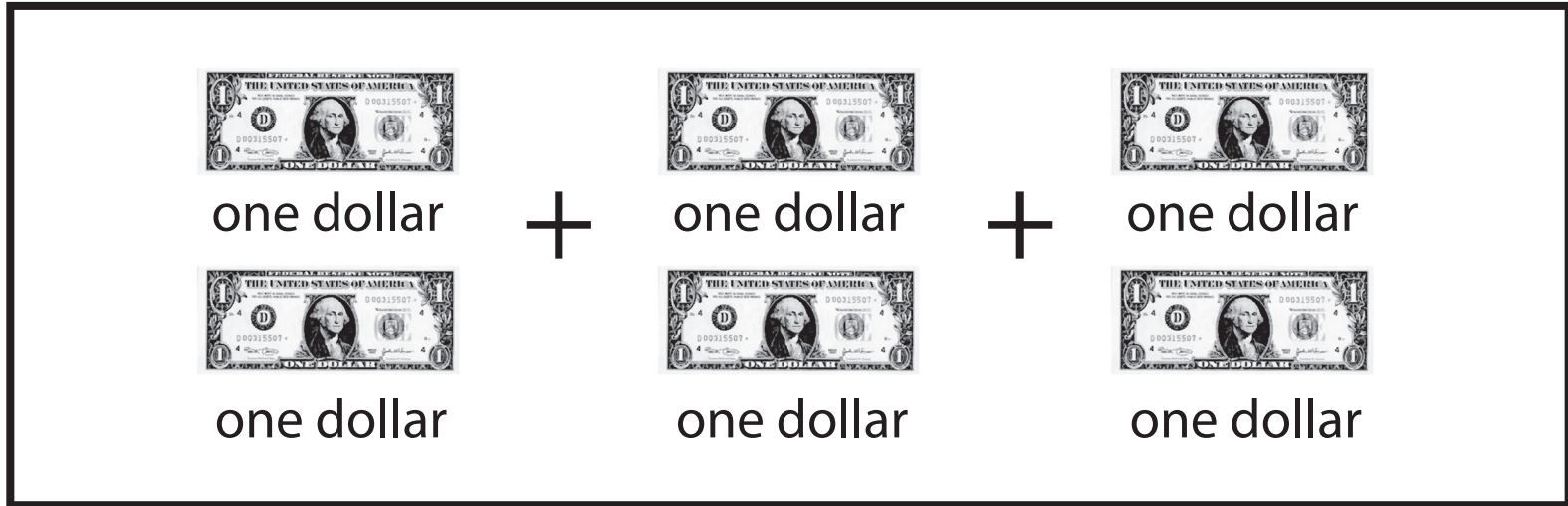
15

B

20

C

Item 4



one dollar + one dollar + one dollar

one dollar + one dollar + one dollar

Which equation shows how much money Paula has altogether?

$$2 + 3 + 5 = 10$$

A

$$2 + 2 + 2 = 6$$

B

$$2 + 2 + 3 = 7$$

C

Item 5

$$3x = 12$$

Solve for x.

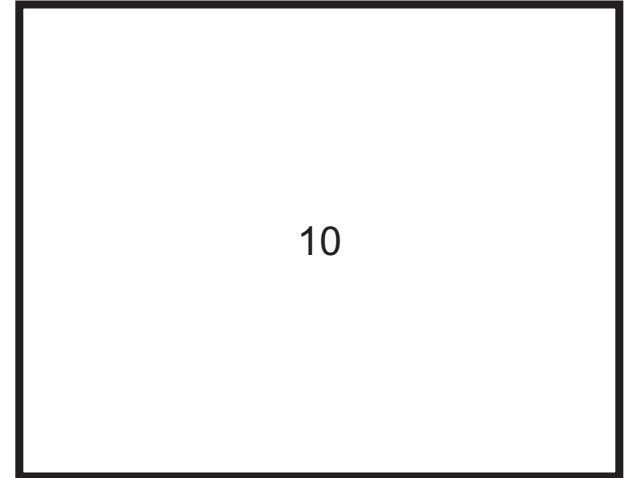
What number times 3 equals 12 ?

A rectangular box with a black border, containing the number 3 in the center.

A

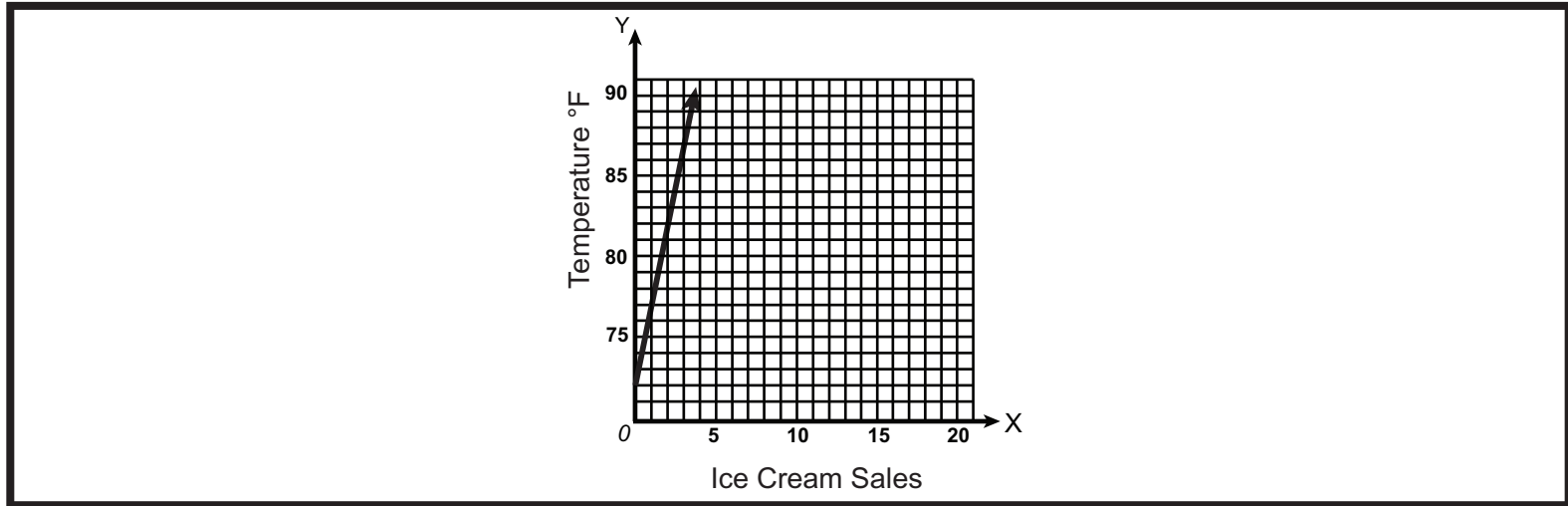
A rectangular box with a black border, containing the number 4 in the center.

B

A rectangular box with a black border, containing the number 10 in the center.

C

Item 6



Does the line show that hotter days lead to more ice cream sales, fewer ice cream sales, or the same ice cream sales?

more ice cream sales

A

fewer ice cream sales

B

the same ice cream sales

C

Item 7

X	Y
1	10
2	20
3	—
4	40
5	50

$$Y = 10X$$

What is the value for Y when $X = 3$?

10

A

20

B

30

C

