VAAP
Virginia Alternate Assessment Program

Practice Items

High School

Mathematics

Examiner's Copy
and
Student Materials

Virginia Department of Education

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Item 1

Here is an equation with the variable d. (Point to student materials.) This says six minus d equals zero. Solve for d. Six minus what number equals 0? 0, 6, or 10

Option: *A*	*B*	*C*	*Student Response*
0	6	10	

Item 2

Ava has 4 blocks. (Point to student materials.) She gives half of her blocks to Isaac. How many blocks does Ava have left? 4 minus 2 equals 2, 4 minus 0 equals 4, or 6 minus 2 equals 4

Option: *A*	*B*	*C*	*Student Response*
$4 - 2 = 2$	$4 - 0 = 4$	$6 - 2 = 4$	

Item 3

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

Option: *A*	*B*	*C*	*Student Response*
1	15	20	

Item 4

Here are some dollar bills. (Point to student materials.) Paula has two dollars. She gets two more dollars for recycling cans and another two dollars for sweeping floors. Which equation shows how much money Paula has altogether? 2 plus 3 plus 5 equals 10, 2 plus 2 plus 2 equals 6, or 2 plus 2 plus 3 equals 7

Option: *A*	*B*	*C*	*Student Response*
$2 + 3 + 5 = 10$	$2 + 2 + 2 = 6$	$2 + 2 + 3 = 7$	

Item 5

Here is an equation with the variable y. (Point to student materials.) This says 3 times y equals 12. Solve for y. What number times 3 equals 12? 3, 4, or 10

Option: *A*	*B*	*C*	*Student Response*
3	4	10	

Item 6

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

Option: A	B	C	*Student Response*
more	fewer	same	

Item 7

Here is an input/output table showing what happens to y when x equals 1, 2, 3, 4, and 5. (Point to table in student materials.) The relationship between x and y can be expressed as the function y equals 10 times x. (Point to function in student materials.).What is the value for Y when X equals 3? 10, 20, or 30

Option: A	B	C	*Student Response*
10	20	30	

Item 8

Shawn has money to buy a gift. (Point to student materials.) Shawn has two twenty-dollar bills, a 10 dollar bill, a 1 dollar bill, and 2 quarters. How much money does Shawn have altogether? $31.50, $51.00, or $51.50

Option: A	B	C	*Student Response*
$31.50	$51.00	$51.50	

Item 9

Here are three clocks for you to read. (Point to student materials.) The toy store opens at 10:00 AM and closes 7 hours later. Which clock shows the time the toy store closes? (Do not read answer choices) A, B or C

Option: A	B	C	*Student Response*

Item 10

Here is a number line with an open circle point at negative 2. (Point to student materials.) If an arrow moves in a positive direction from the point at negative 2, which inequality matches the number line? x is greater than negative 2, x is less than negative 2, or x is equal to negative 2

Option: A	B	C	*Student Response*
$x > -2$	$x < -2$	$x = -2$	

Item 11

Here is an equation with the variable y. (Point to student materials.) This equation says 2 times y plus 4 equals 20. Solve for y. What does y equal? 2, 4, or 8

Option: *A*	*B*	*C*	*Student Response*
2	4	8	

Item 12

Here is 5 to the second power. (Point to student materials.) When a number is raised to the second power, it is multiplied by itself. What is 5 to the second power? 5, 10, or 25

Option: *A*	*B*	*C*	*Student Response*
5	10	25	

Item 13

Jackson is buying a video game. (Point to student materials) The game costs $25.00 and the total sales tax is 7% or $1.75. How much money does Jackson need to buy the game? $26.75, $32.00, or $33.75

Option: *A*	*B*	*C*	*Student Response*
$26.75	$32.00	$33.75	

VAAPPT11M21003_2

Item 1

$6 - d = 0$

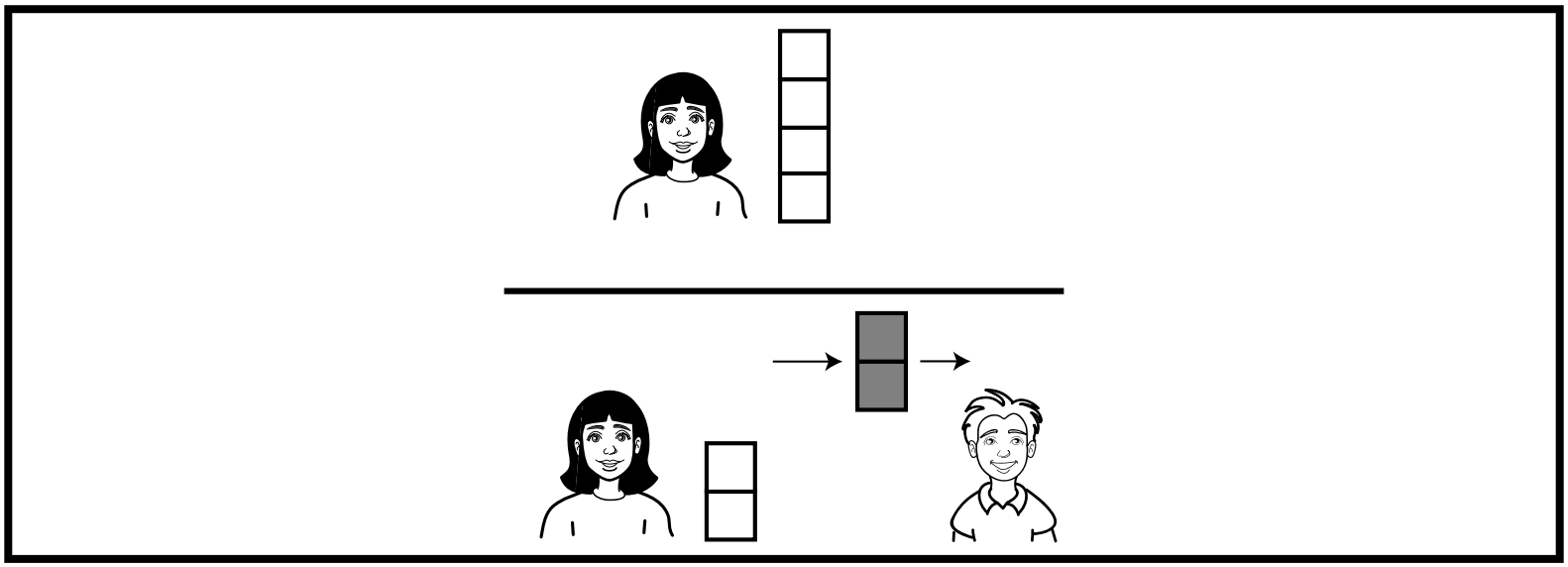
Solve for d.

Six minus what number equals 0 ?

A	B	C
0	6	10

VAAPPT11M21004_1

Item 2



How many blocks does Ava have left?

A	B	C
$4 - 2 = 2$	$4 - 0 = 4$	$6 - 2 = 4$

VAAPPT11M21005_2

Item 3

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

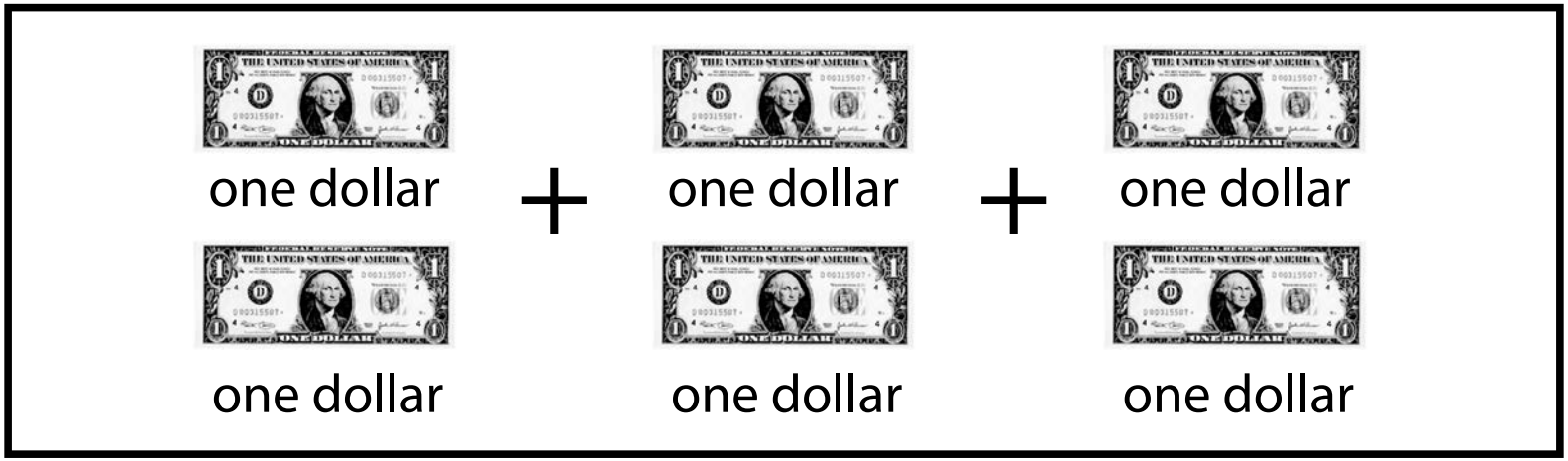
A number to the first power equals itself.

What is 15 to the first power?

A	B	C
1	15	20

VAAPPT11M21006_2

Item 4



Paula has two dollars. She gets two more dollars for recycling cans and another two dollars for sweeping floors.

Which equation shows how much money Paula has altogether?

A	B	C
$2 + 3 + 5 = 10$	$2 + 2 + 2 = 6$	$2 + 2 + 3 = 7$

VAAPPT11M21007_2

Item 5

$3y = 12$

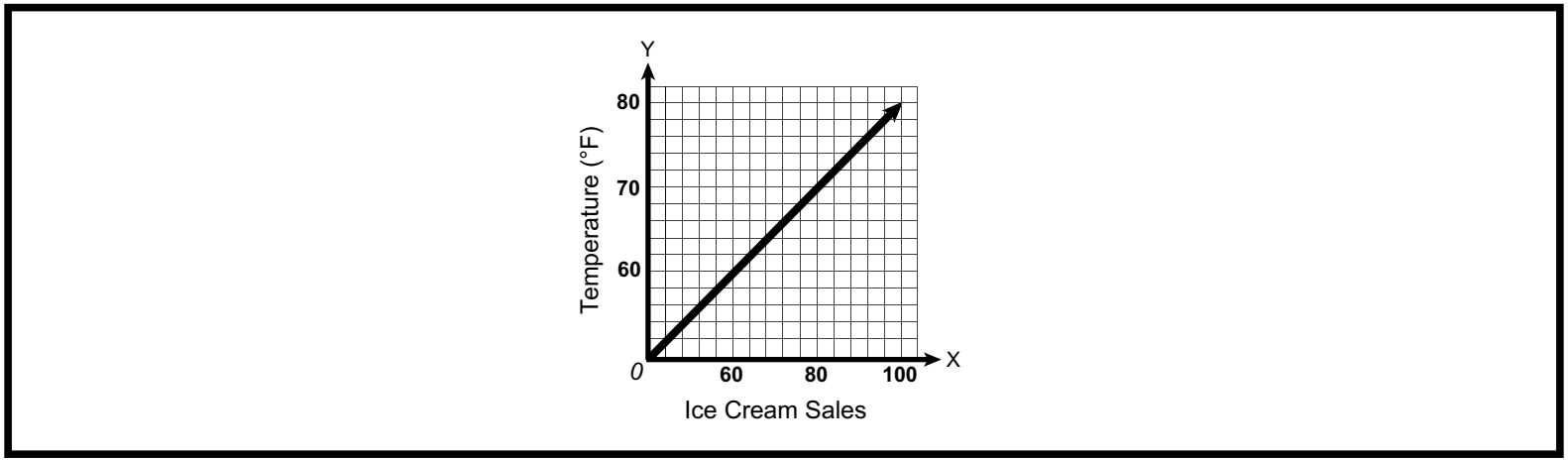
Solve for y.

What number times 3 equals 12 ?

A	B	C
3	4	10

VAAPPT11M21008_1

Item 6



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

A	B	C
more	fewer	same

VAAPPT11M21009_3

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

VAAPPT11M21017_3

Item 8

Shawn has two twenty dollar bills, a 10 dollar bill, a 1 dollar bill, and 2 quarters.

How much money does Shawn have altogether?

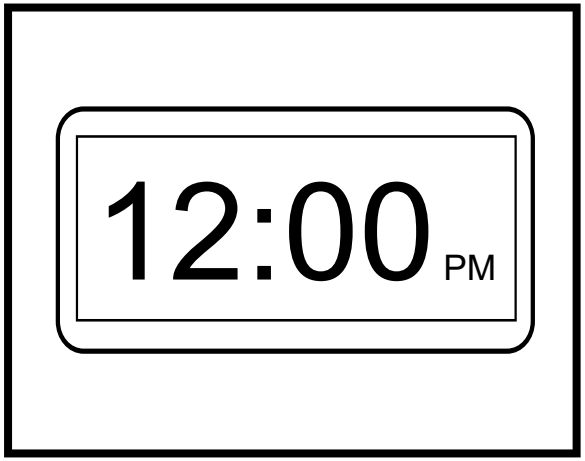
A	B	C
$31.50	$51.00	$51.50

VAAPPT11M21018_2

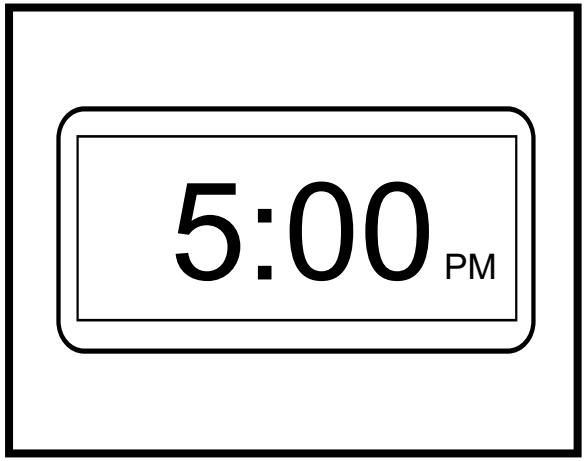
Item 9

The toy store opens at 10:00 am and doses 7 hours later.

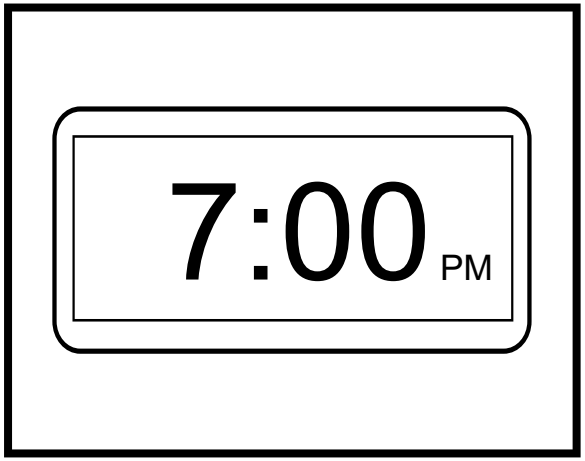
Which clock shows the time the toy store closes?



A



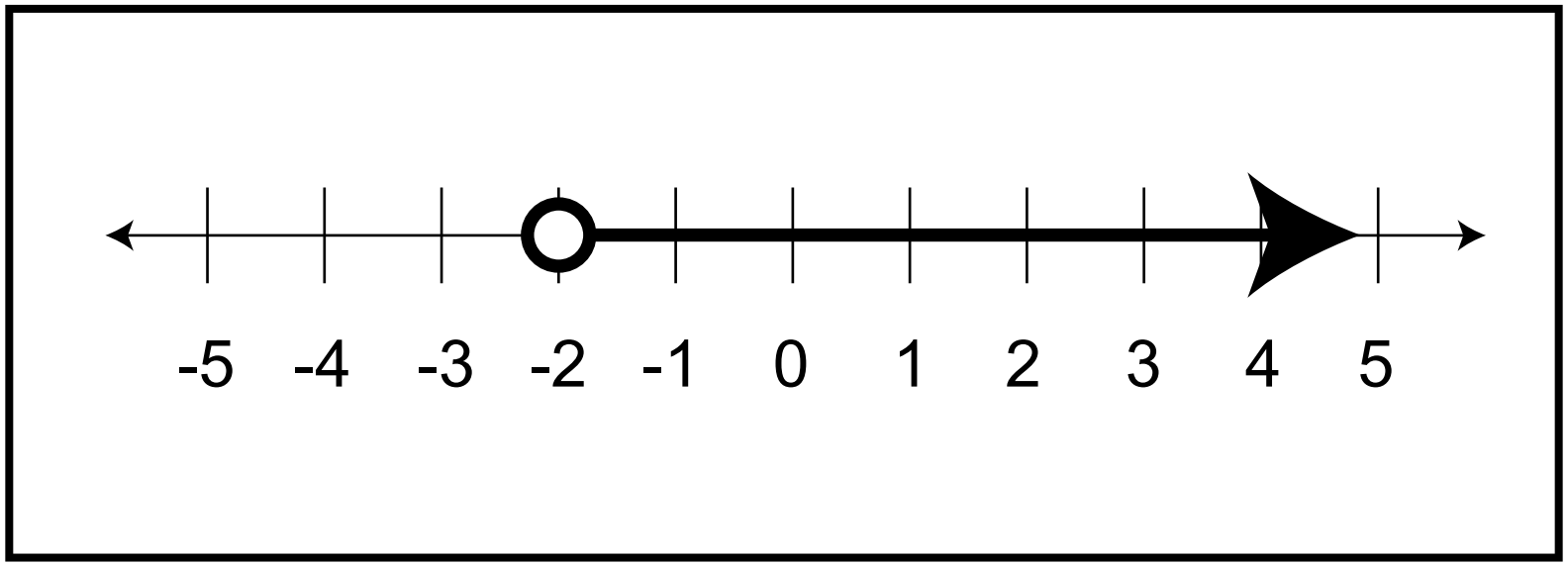
B



C

VAAPPT11M21019_1

Item 10



If an arrow moves in a positive direction from the point at $^{-}2$, which inequality matches the number line?

A. $x > {}^{-}2$

B. $x < {}^{-}2$

C. $x = {}^{-}2$

VAAPPT11M21020_3

Item 11

$$2y + 4 = 20$$

Solve for y.

What does y equal?

A	B	C
2	4	8

VAAPPT11M21021_3

Item 12

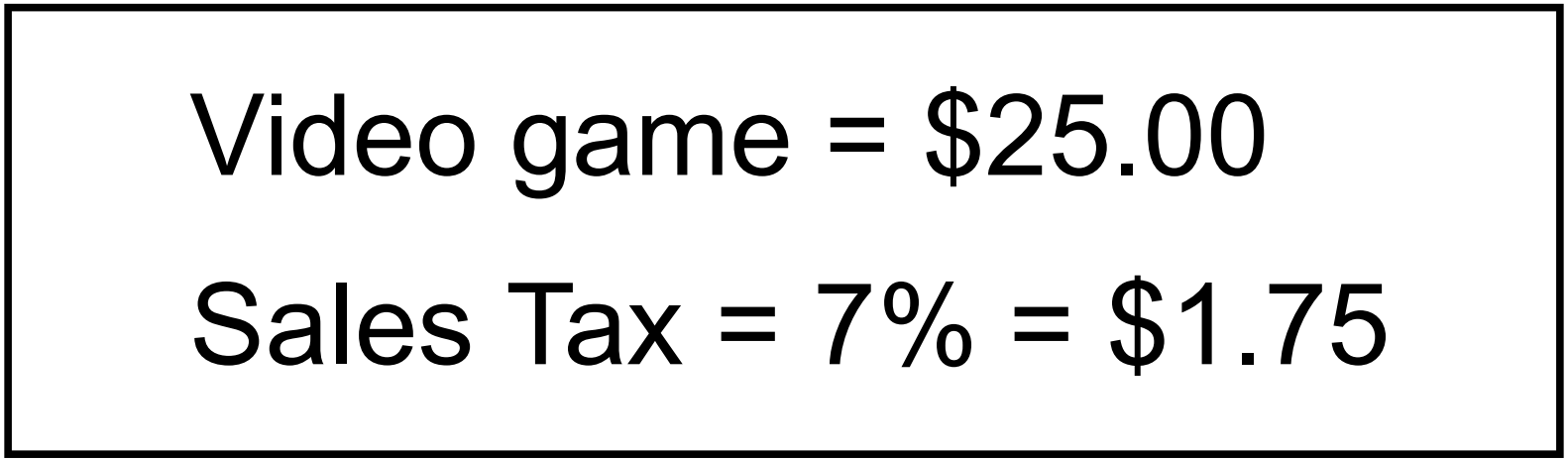
5^2 = _____

What is 5 to the second power?

A	B	C
5	10	25

VAAPPT11M21022_1

Item 13



The game costs $25.00 and the total sales tax is 7% or $1.75.

How much money does Jackson need to buy the game?

A	B	C
$26.75	$32.00	$33.75

1144389 1 2 3 4 5 A B C D E Printed in the USA ISD37084