



Practice Items

Grade 6

Mathematics

Examiner's Copy and Student Materials

Virginia Department of Education

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Item 1	Option:	A	B	C	Student Response
Here is a number line that goes from 5 to 20, with a point marked at 5, and an addition problem, 5 plus 10. (Point to student materials.) If you have 5 apples and get 10 more, how many apples do you have? 10, 15, or 20		10	15	20	

Item 2	Option:	A	B	C	Student Response
Here is a bar graph of how many push-ups Linda, Julie, and Sam can do. (Point to student materials.) How many push-ups can Linda do? 14, 18, or 20		14	18	20	

Item 3	Option:	A	B	C	Student Response
Here is a number line with a dot on the number negative seven. (Point to student materials.) Which number is the same distance from zero as negative seven? 5, 6, or 7		5	6	7	

Item 4	Option:	A	B	C	Student Response
Here are thirty strawberries and a division problem, thirty divided by ten. (Point to student materials.) Reba picks 30 strawberries. She puts them in pails. Each pail has 10 strawberries. How many pails does Reba fill? 3, 4, or 5		3	4	5	

Item 5	Option:	A	B	C	Student Response
Here is a frog. The frog jumps on five lily pads to catch a fly. (Point to student materials.) How many jumps does he need to get back? 3 jumps back, 4 jumps back, or 5 jumps back		3	4	5	

Item 6	Option:	A	B	C	Student Response
Here is a number line and two numbers, 49 and 46. (Point to student materials.) Is 49 the same as 46, less than 46, or more than 46? (Do not read answer choices.) A, B, or C		=	<	>	

Item 7

Option:

Here is a bag of potato chips and an apple. (Point to student materials.) The bag of potato chips costs \$2.50 and the apple costs \$1.00. How much money do you need to buy the potato chips and apple? \$2.50, \$3.50, or \$5.00

A	B	C	Student Response
\$2.50	\$3.50	\$5.00	

Item 8

Option:

Here are three clocks for you to read. (Point to student materials.) Which clock shows 8:15 in the morning? (Do not read answer choices.) A, B, or C

A	B	C	Student Response
8:15 ^{AM}	8:00 ^{PM}	8:15 ^{PM}	

Item 9

Option:

Here are three pairs of shapes labeled A, B, and C. (Point to student materials.) Under A is a small square and a large square. Under B is a small square and a small triangle. Under C is a small square and a small square. Congruent shapes are the same size and shape. Which pair of shapes is congruent? A, B, or C

A	B	C	Student Response
A	B	C	

Item 10

Option:

Here is an input/output table showing what y is equal to when x equals 1, 2, 3, 4, and 5. (Point to student materials.) For example, when x=1, y=2. What does y equal when x=5? 5, 10, or 20

A	B	C	Student Response
5	10	20	

Item 11

Option:

Here is a square with side lengths of 8 inches. (Point to student materials.) The perimeter is the distance around the outside of the square. What is the perimeter of this square? 8 inches, 16 inches, or 32 inches

A	B	C	Student Response
8 in.	16 in.	32 in.	

Item 12

Option:

Here is a word problem with fractions. (Point to student materials.) If you have $\frac{1}{2}$ of a pizza and your friend has $\frac{1}{2}$ of a pizza, how much pizza do you and your friend have all together? $\frac{1}{4}$ of a pizza, $\frac{1}{2}$ of a pizza, or 1 whole pizza

A	B	C	Student Response
$\frac{1}{4}$	$\frac{1}{2}$	1	

Item 13

Option:

Here is an expression: $20x - 10x + 5$. (Point to student materials.) Which of these expressions is equivalent to the one above? $10x + 5$, $30x + 5$, or $15x$

A	B	C	Student Response
$10x + 5$	$30x + 5$	$15x$	

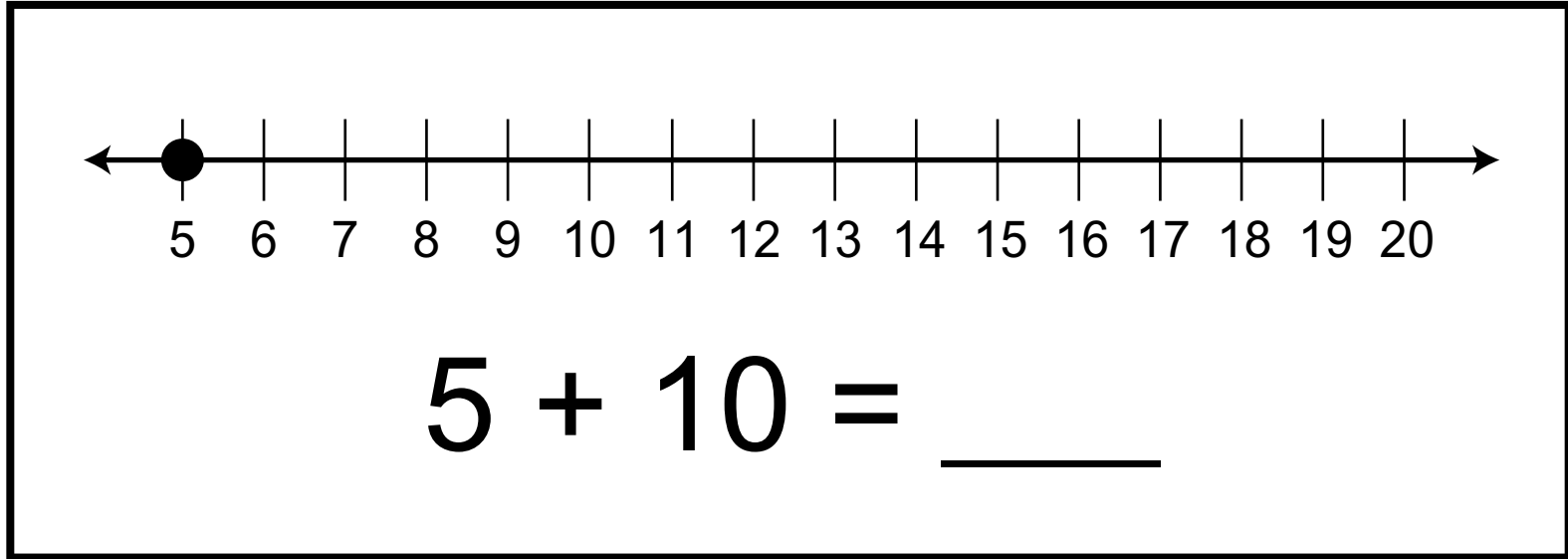
Item 14

Option:

Here is a coordinate plane with three points labeled A, B, and C. (Point to student materials.) This is the X-axis. (Point to x-axis.) This is the Y-axis. (Point to y-axis.) Which point has the coordinates ordered pair 2, 4? A, B, or C

A	B	C	Student Response
A	B	C	

Item 1



If you have 5 apples and get 10 more, how many apples do you have?

10

A

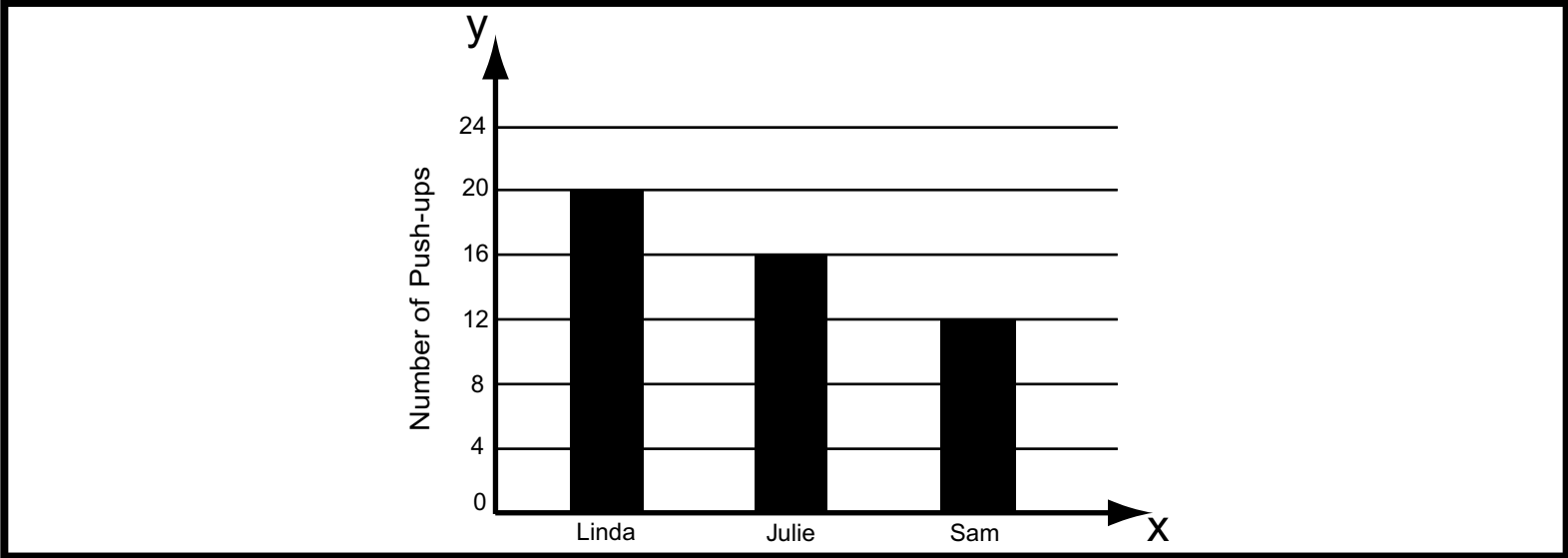
15

B

20

C

Item 2



How many push-ups can Linda do?

14

A

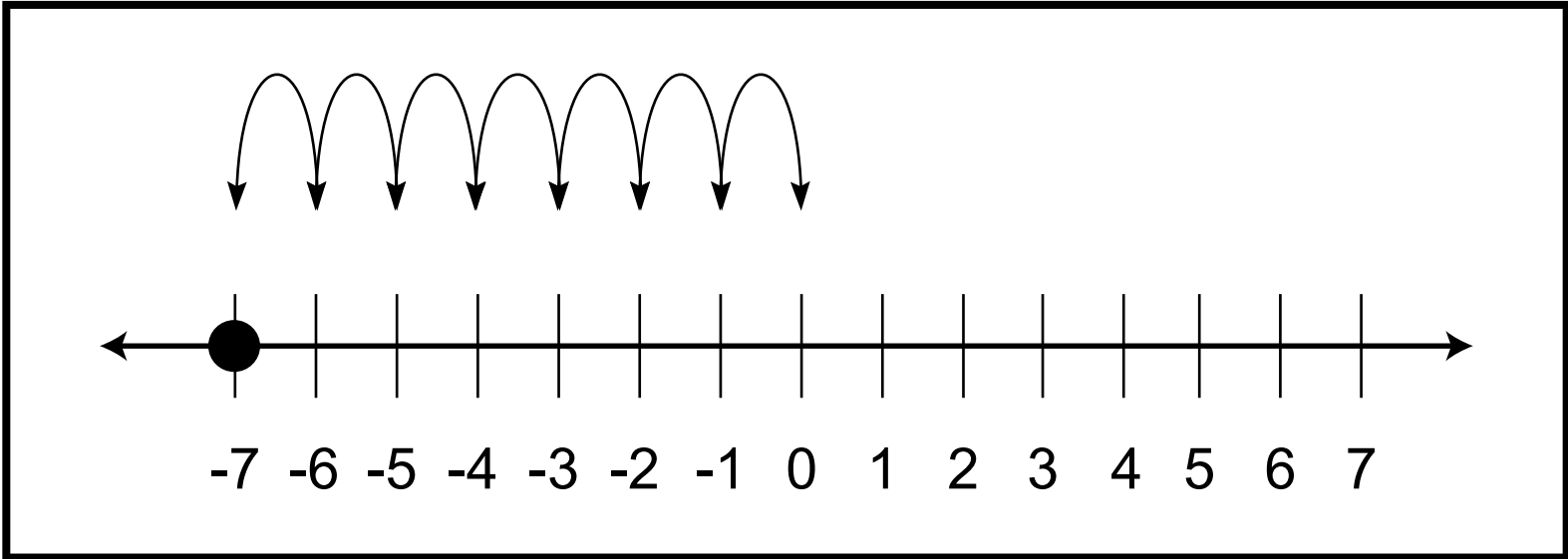
18

B

20

C

Item 3



Which number is the same distance from zero as negative seven?

5

A

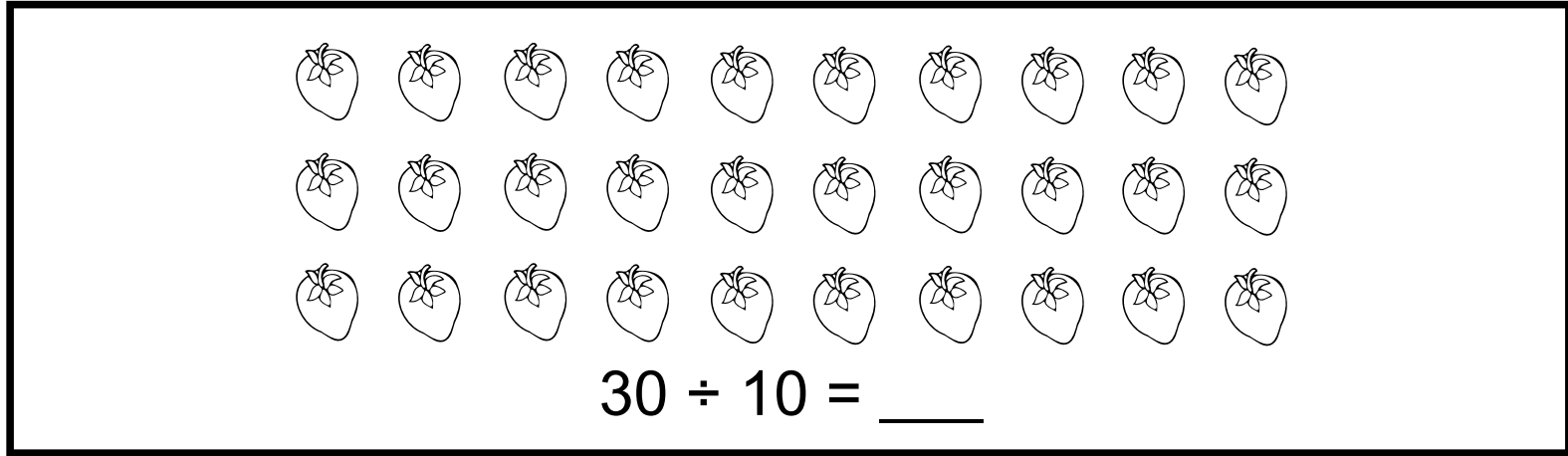
6

B

7

C

Item 4



30 ÷ 10 = ____

Reba picks 30 strawberries. She puts them in pails. Each pail has 10 strawberries.

How many pails does Reba fill?

3

A

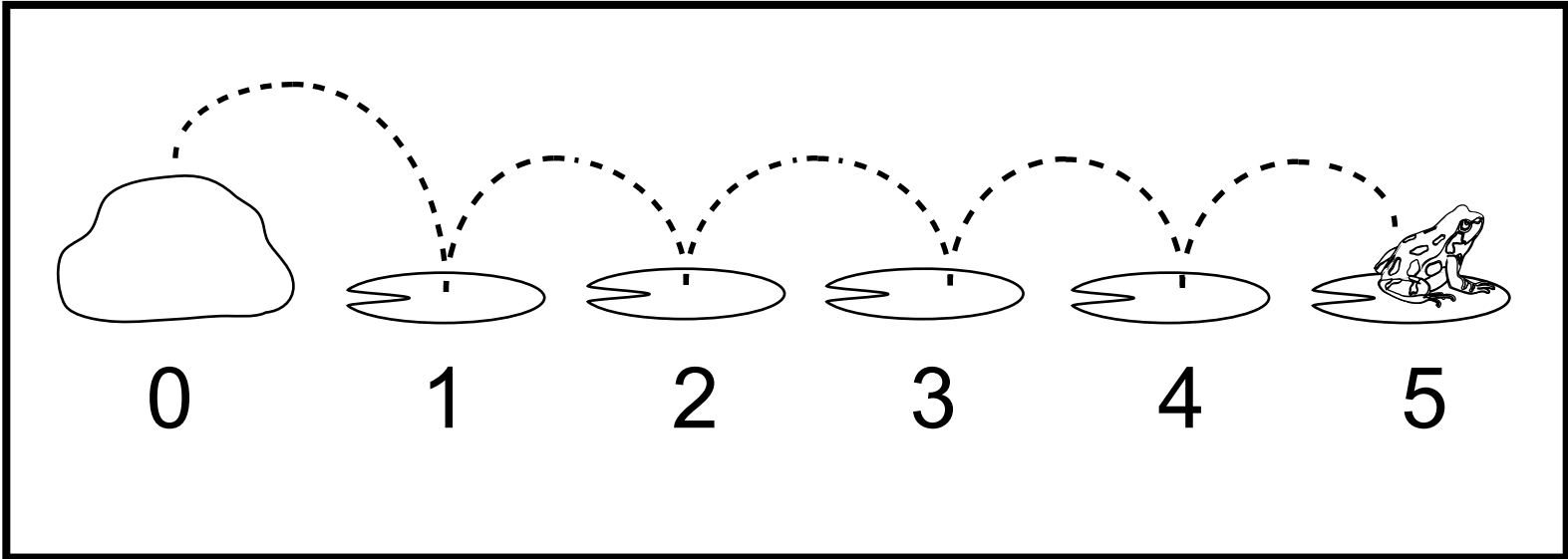
4

B

5

C

Item 5



How many jumps does he need to get back?

3

A

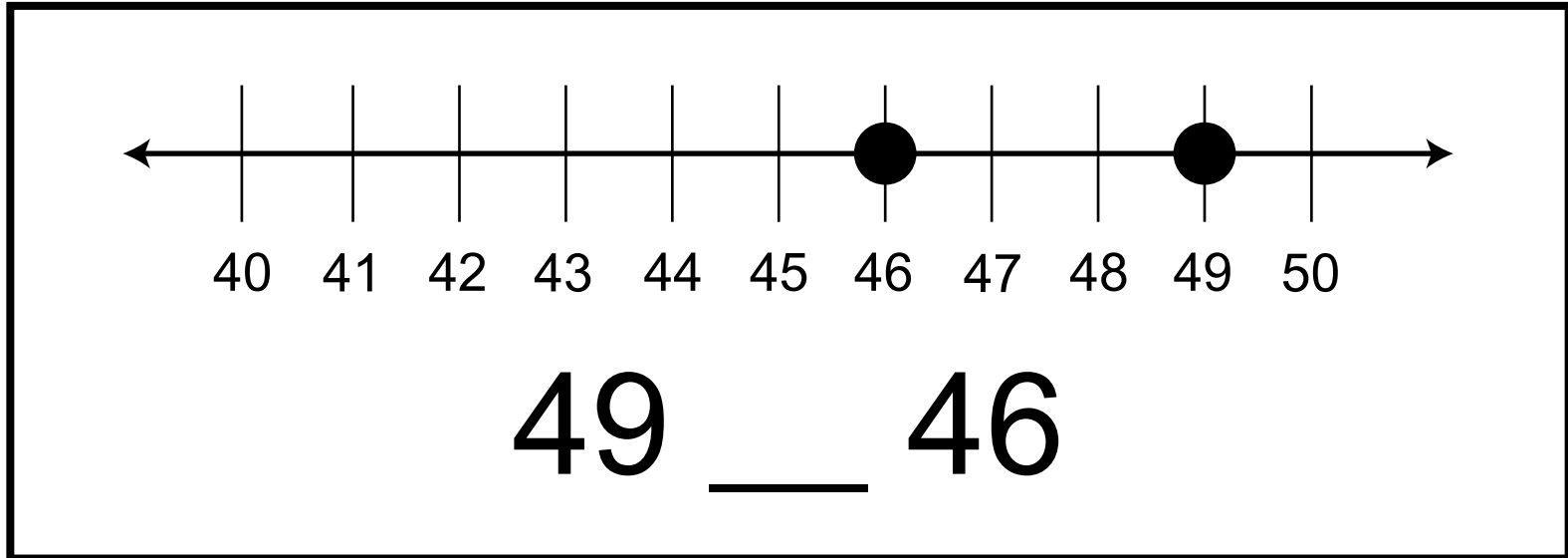
4

B

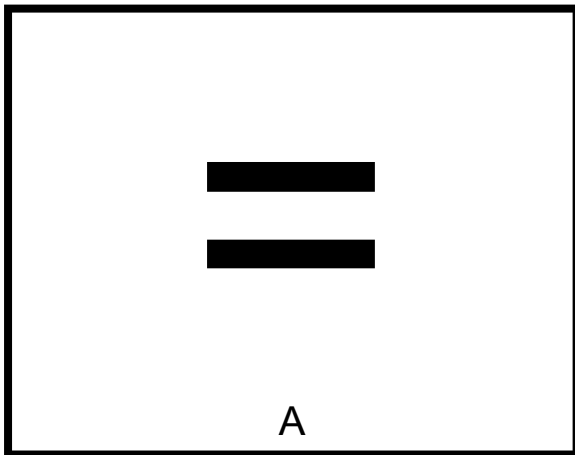
5

C

Item 6

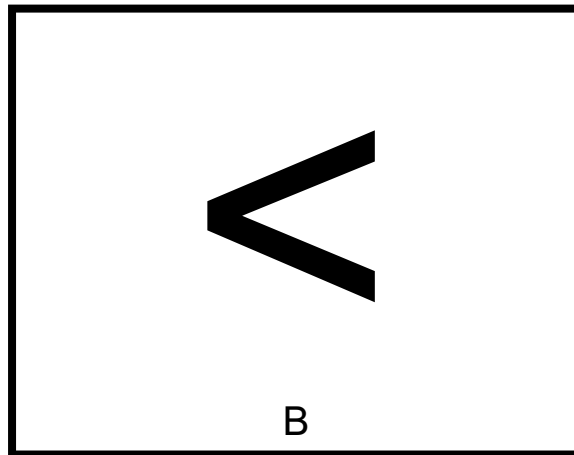


Is 49 the same as 46, less than 46, or more than 46 ?



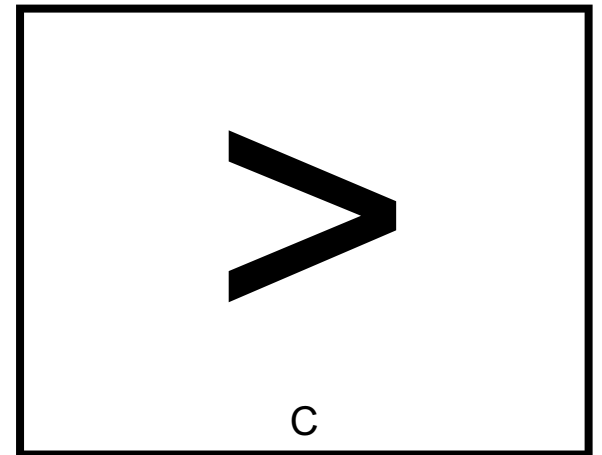
A

A



B

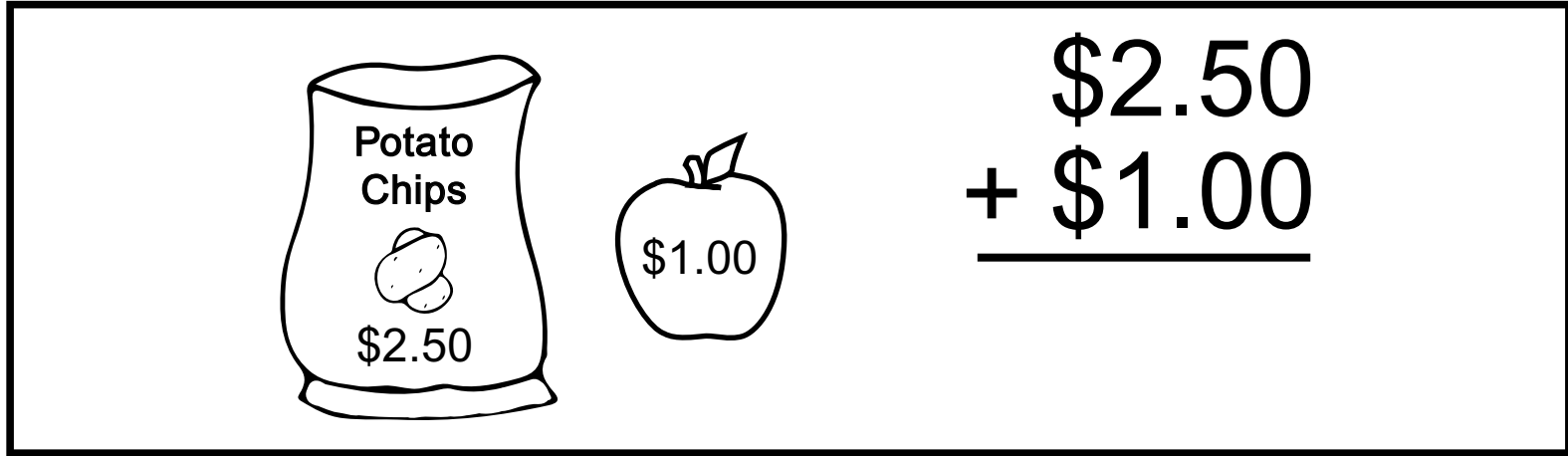
B



C

C

Item 7



The diagram is enclosed in a rectangular border. On the left is a bag of potato chips with the text "Potato Chips" and an illustration of two chips, with the price "\$2.50" written below. To its right is an apple with a stem and leaf, with the price "\$1.00" written on its side. To the right of the apple is a partial addition problem: "\$2.50" plus "\$1.00" with a horizontal line underneath the second number.

The bag of potato chips costs \$2.50 and the apple costs \$1.00.

How much money do you need to buy the potato chips and apple?

\$2.50

A

\$3.50

B

\$5.00

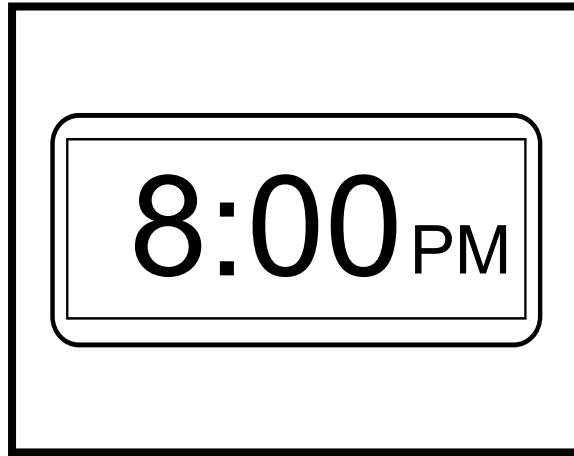
C

Item 8

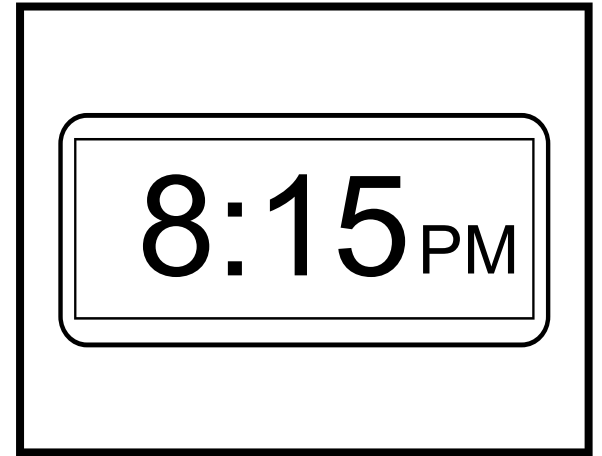
Which clock shows 8:15 in the morning?



A

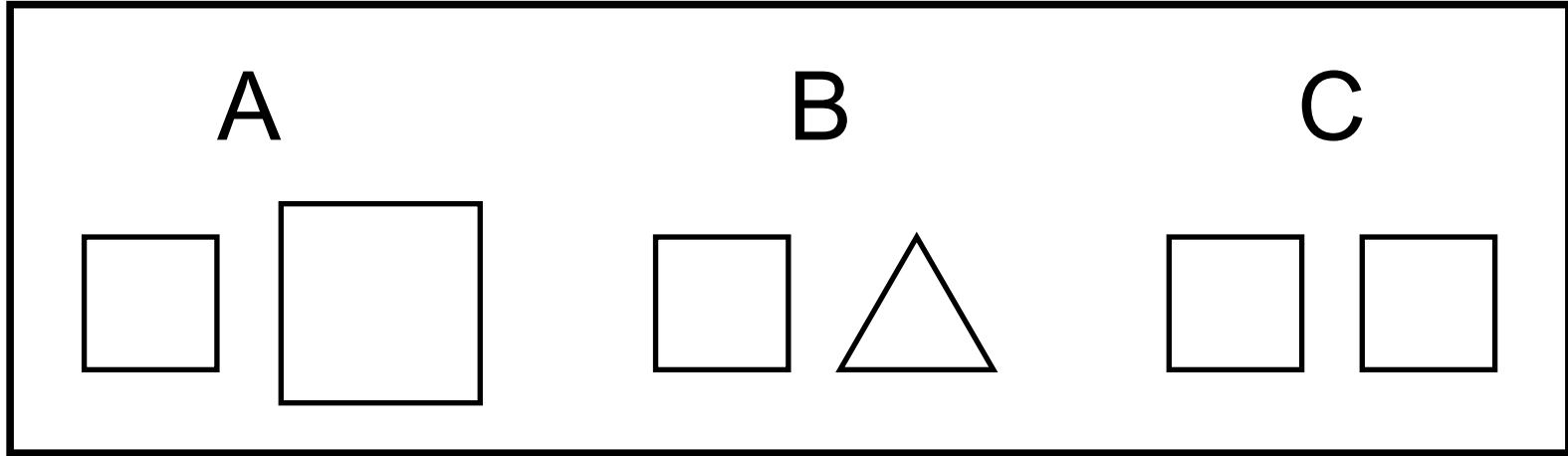


B



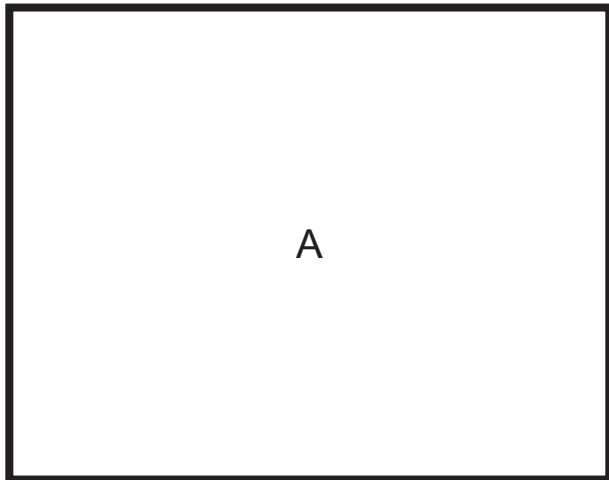
C

Item 9

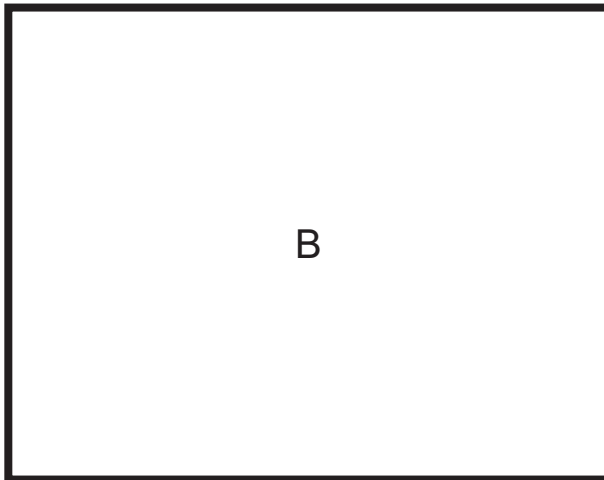


Under A is a small square and a large square. Under B is a small square and a small triangle. Under C is a small square and a small square. Congruent shapes are the same size and shape.

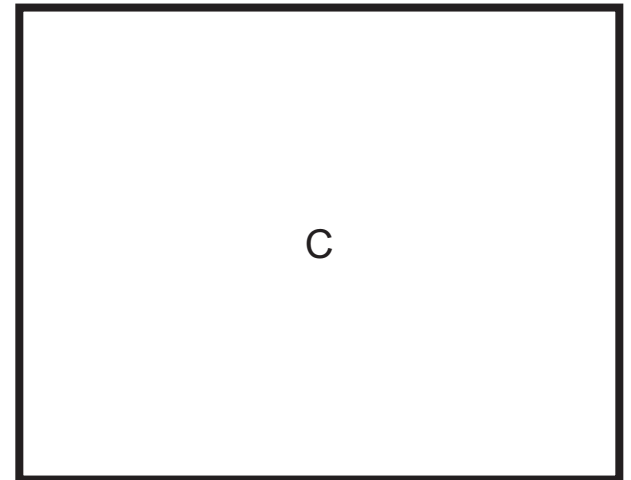
Which pair of shapes is congruent?



A



B



C

Item 10

X	Y
1	2
2	4
3	6
4	8
5	?

For example, when $x = 1$, $y = 2$.

What does y equal when $x = 5$?

5

A

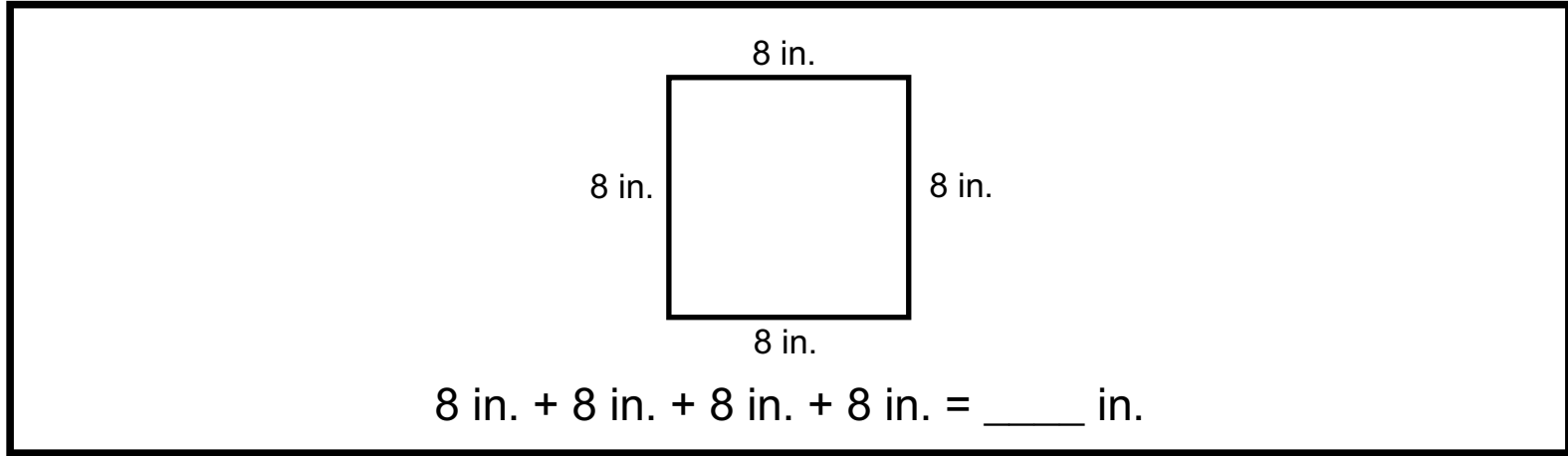
10

B

20

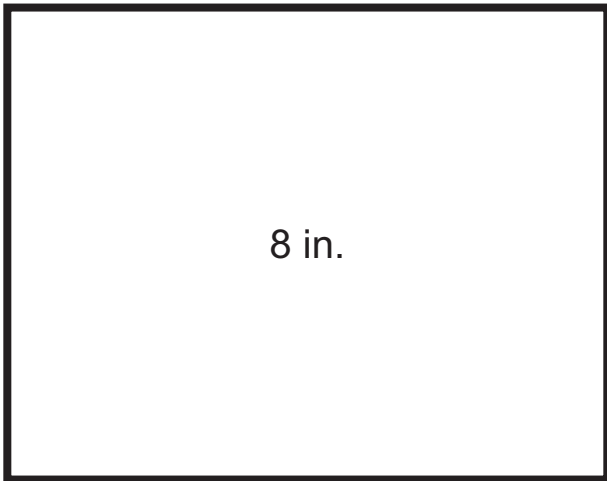
C

Item 11

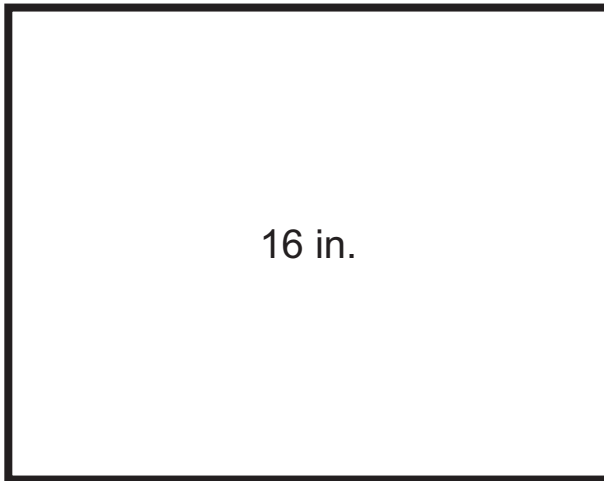


The perimeter is the distance around the outside of the square.

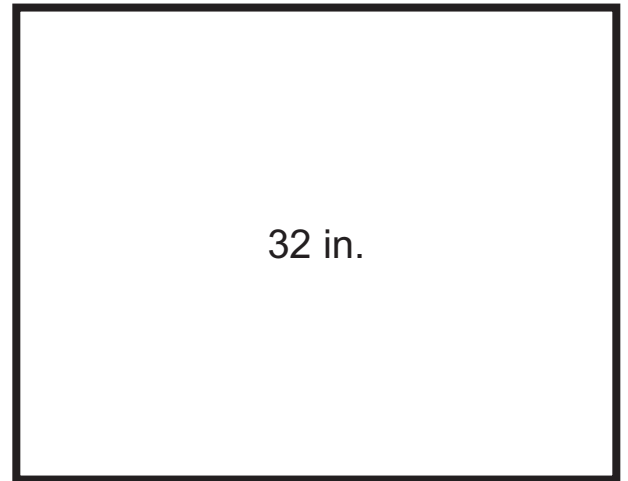
What is the perimeter of this square?



A

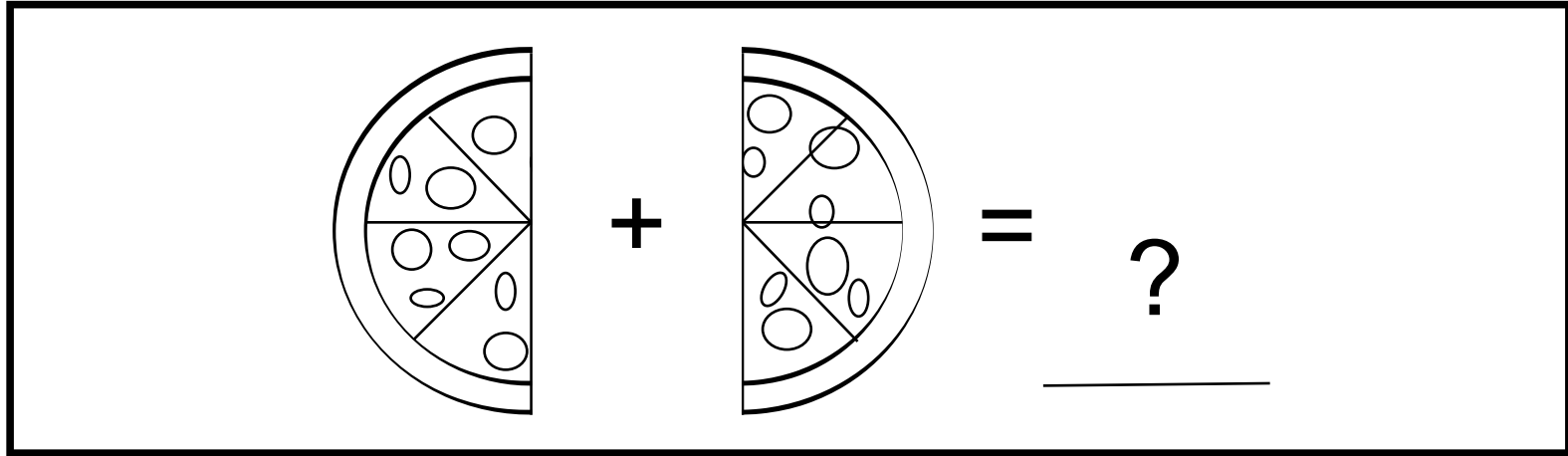


B

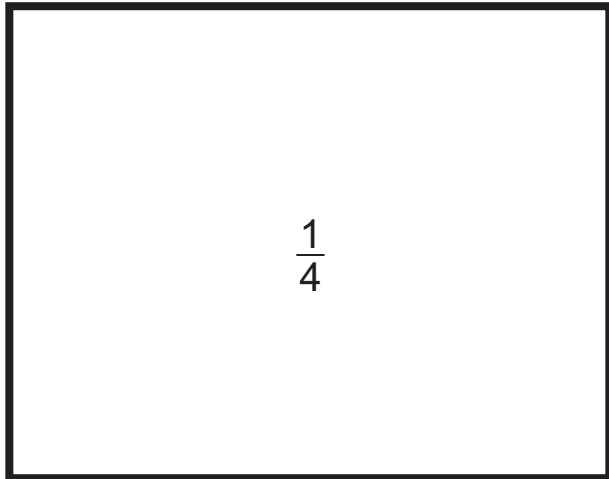


C

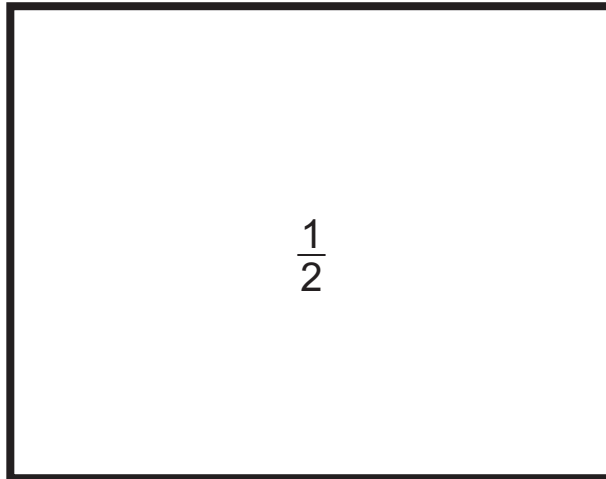
Item 12



If you have $\frac{1}{2}$ of a pizza and your friend has $\frac{1}{2}$ of a pizza, how much pizza do you and your friend have all together?



A



B

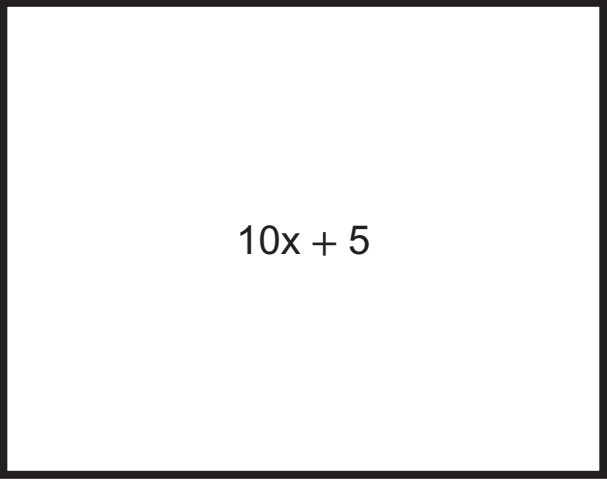


C

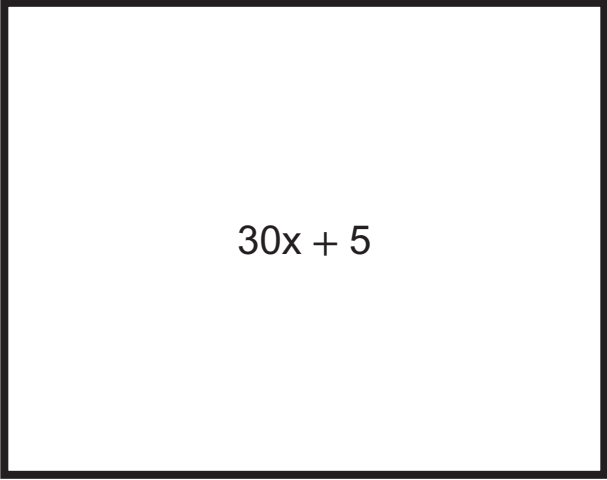
Item 13

$$20x - 10x + 5$$

Which of these expressions is equivalent to the one above?


$$10x + 5$$

A

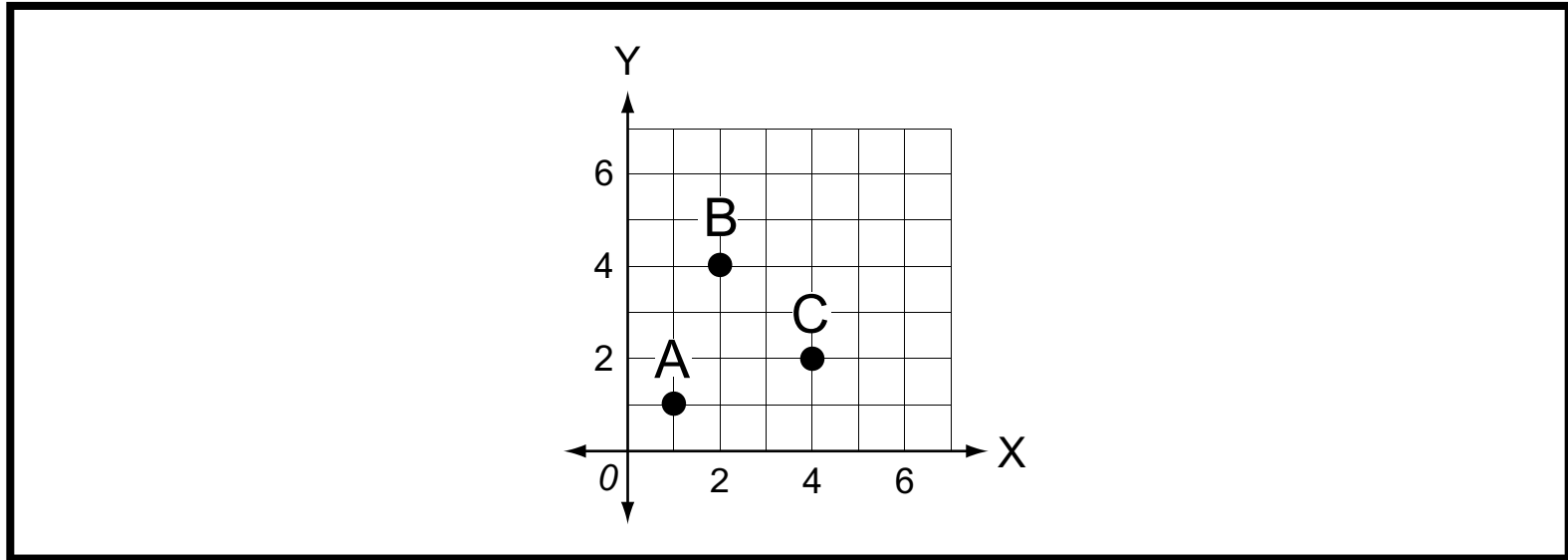

$$30x + 5$$

B

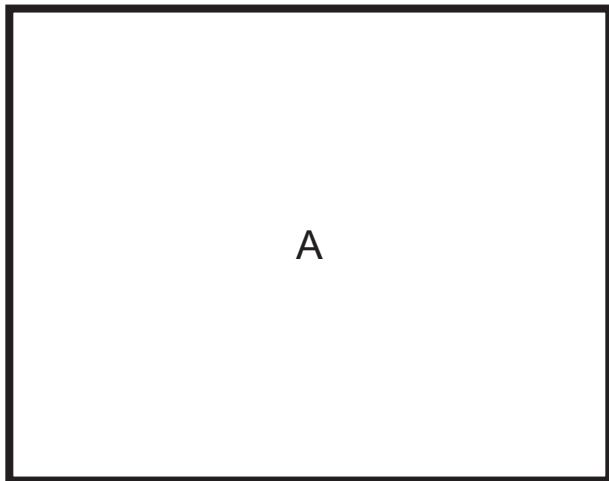

$$15x$$

C

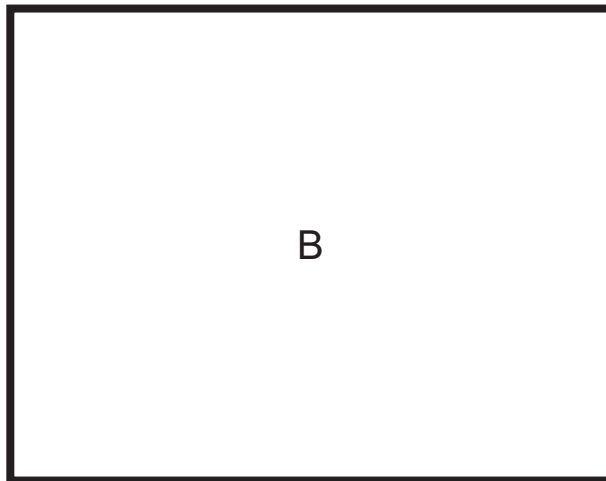
Item 14



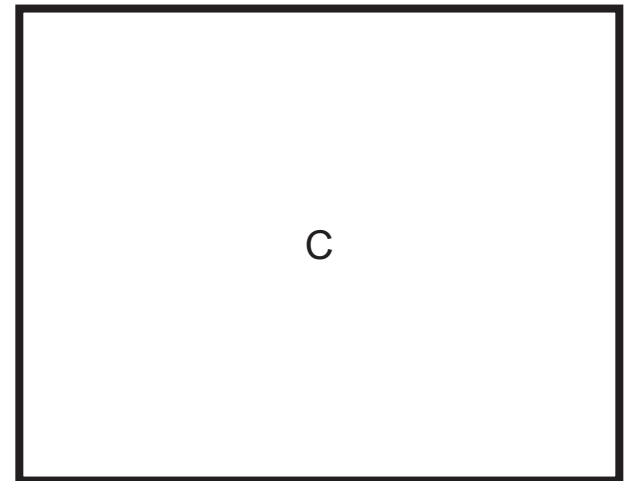
Which point has the coordinates (2, 4) ?



A



B



C

