



# Practice Items

## Grade 7

# Mathematics



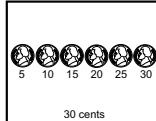
### Examiner's Copy and Student Materials

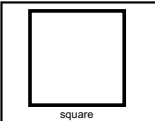
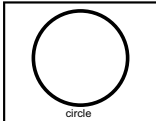
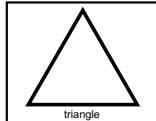
Virginia Department of Education

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Item 1	Option:	A	B	C	Student Response
		$\frac{1}{4}$	$\frac{2}{3}$	$\frac{3}{4}$	
Here is the decimal 0.75. (Point to student materials.) Which of these fractions is the same as 0.75? one fourth, two thirds, or three fourths					

Item 2	Option:	A	B	C	Student Response
					
Here is an addition problem with nickels. (Point to student materials.) A nickel is 5 cents. How much money is 3 nickels plus 3 nickels? 20 cents, 25 cents, or 30 cents					

Item 3	Option:	A	B	C	Student Response
					
Here are three shapes. (Point to student materials.) Which shape has 4 sides and 4 angles? square, circle, or triangle					

Item 4	Option:	A	B	C	Student Response
		4	5	6	
Here is a math problem with mixed numbers. (Point to student materials.) If you eat $3\frac{1}{2}$ strawberries and your friend eats $2\frac{1}{2}$ more, how many strawberries did you eat all together? 4, 5, or 6					

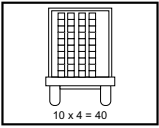
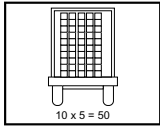
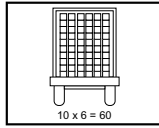
Item 5	Option:	A	B	C	Student Response
		20	22	24	
Here is a box that is 2 feet long, 3 feet wide, and 4 feet high. (Point to student materials.) Volume equals length times width times height or V equals L times W times H. How many cubic feet is this box? 20, 22, or 24					

Item 6	Option:	A	B	C	Student Response
					
Here is a dollar bill and 4 quarters. (Point to student materials.) One quarter is one-fourth of a dollar. If we take three-fourths of a dollar, how many quarters would that be? 2, 3, or 4					

Item 7

Option:

Here are some trucks with stacks of 10 boxes inside them. (Point to student materials.) Dave puts 10 boxes in a truck each hour. Here is a picture of the truck after one hour. (Point to prompt image.) How many boxes does he put in the truck in 4 hours?  $10 \times 4 = 40$ ,  $10 \times 5 = 50$ , or  $10 \times 6 = 60$

A	B	C	Student Response
			<div style="border: 1px solid black; width: 100%; height: 100%;"></div>

Item 8

Option:

Terrell has money to buy a snack. (Point to student materials.) If Terrell has a five dollar bill, a one dollar bill, and two quarters, how much money does he have altogether? \$5.50, \$6.00, or \$6.50

A	B	C	Student Response
\$5.50	\$6.00	\$6.50	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>

Item 9

Option:

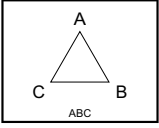
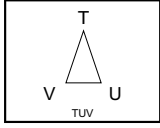
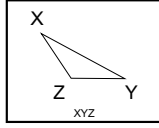
Here is a clock showing that it is 8 AM. (Point to student materials.) If the bus comes in 5 minutes, what time will it be? 7:55 AM, 8:05 AM, 8:00 PM

A	B	C	Student Response
7:55 AM	8:05 AM	8:00 PM	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>

Item 10

Option:

Here is a triangle labeled DEF and three other triangles. (Point to student materials.) A triangle is similar to another triangle if it has the same shape, but is a different size. Which triangle is similar to triangle DEF? Triangle ABC, Triangle TUV, or Triangle XYZ

A	B	C	Student Response
			<div style="border: 1px solid black; width: 100%; height: 100%;"></div>

Item 11

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 6, 4? A, B, or C

A	B	C	Student Response
A	B	C	<div style="border: 1px solid black; width: 100%; height: 100%;"></div>

Item 12

Here is a candy jar with two pieces of candy labeled 1 or 2. (Point to student materials.) If you select a piece of candy without looking, what is the probability it is the piece with a 1 on it? 0%, 25%, or 50%

Option:

A	B	C	Student Response
0%	25%	50%	

Item 13

Here is a word problem. (Point to student materials.) Mia has solved 3 math problems. How many more math problems does Mia need to solve if her goal is to solve more than 5 problems? 1, 2, or 3

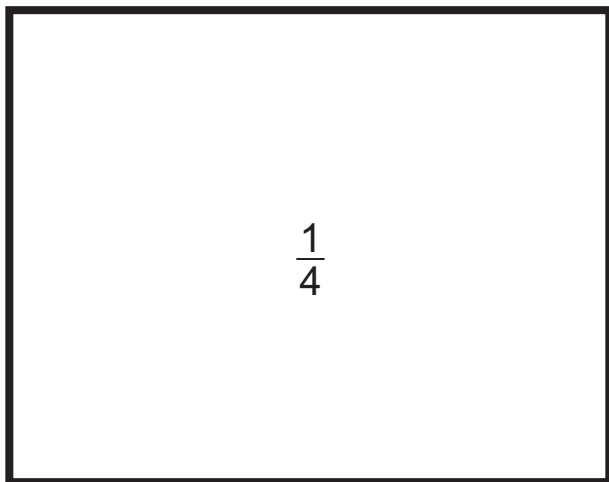
Option:

A	B	C	Student Response
1	2	3	

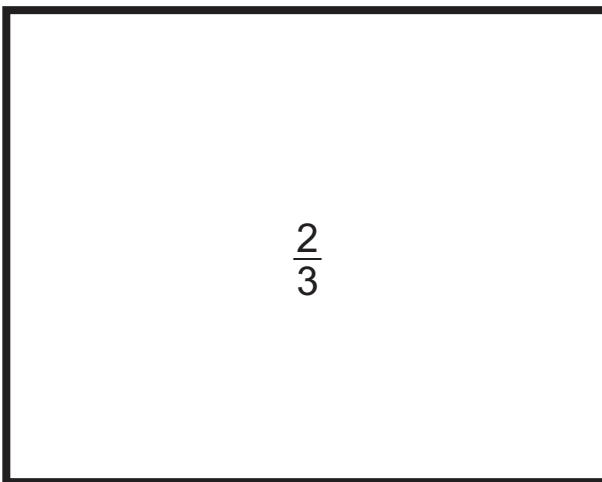
Item 1

0.75

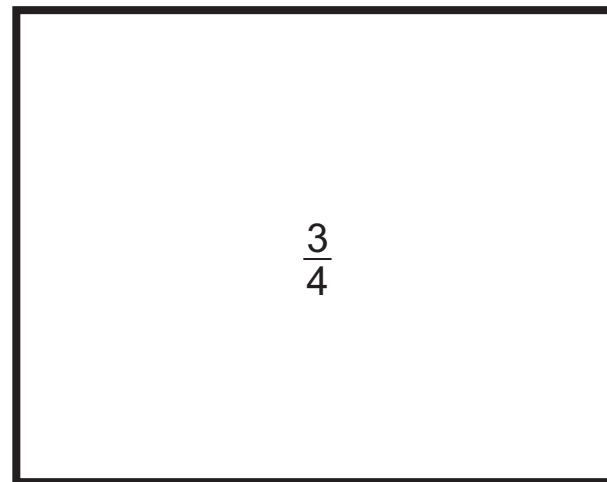
Which of these fractions is the same as 0.75 ?



**A**

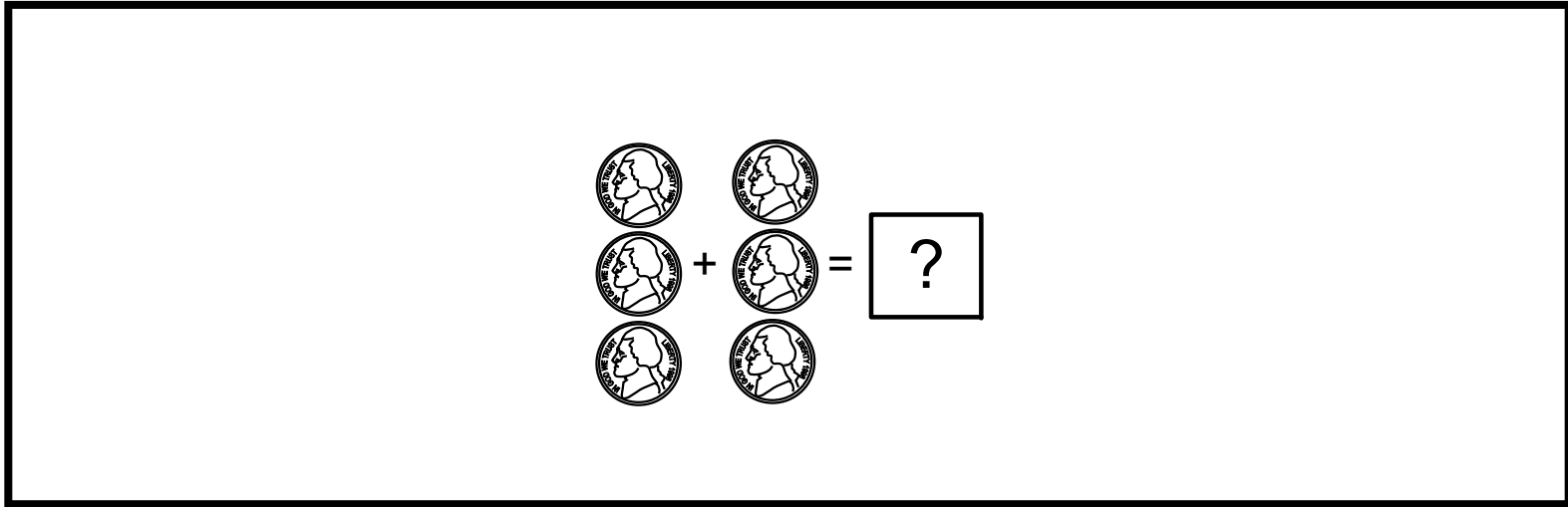


**B**



**C**

Item 2



$n = 5$  cents

How much money is 3 nickels plus 3 nickels?  $3n + 3n$

5 10 15 20

20 cents

**A**

5 10 15 20 25

25 cents

**B**

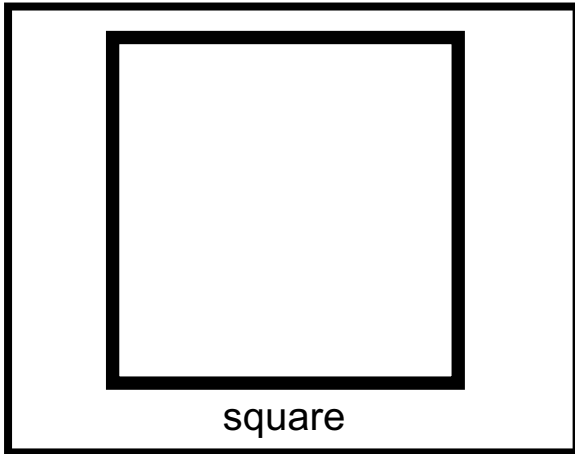
5 10 15 20 25 30

30 cents

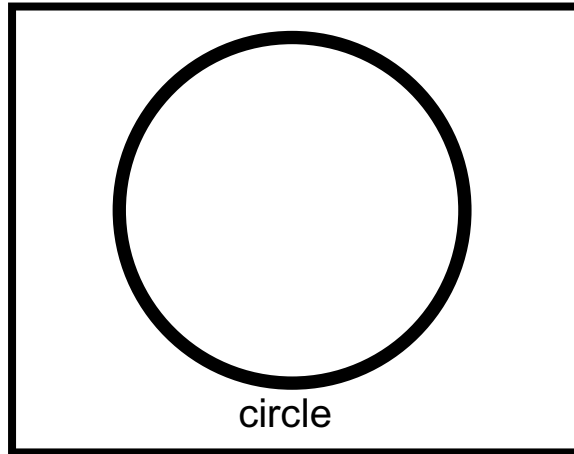
**C**

Item 3

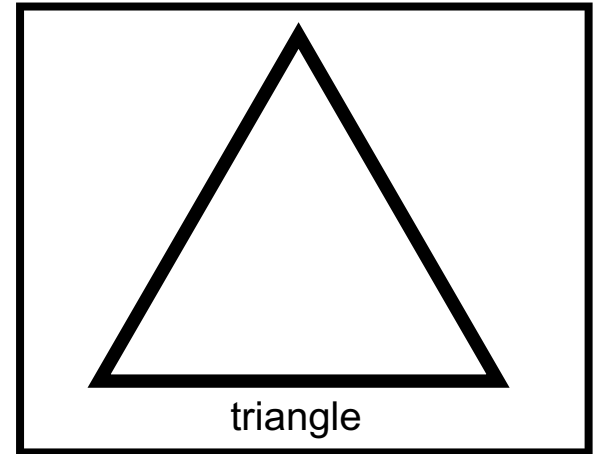
Which shape has 4 sides and 4 angles?



**A**

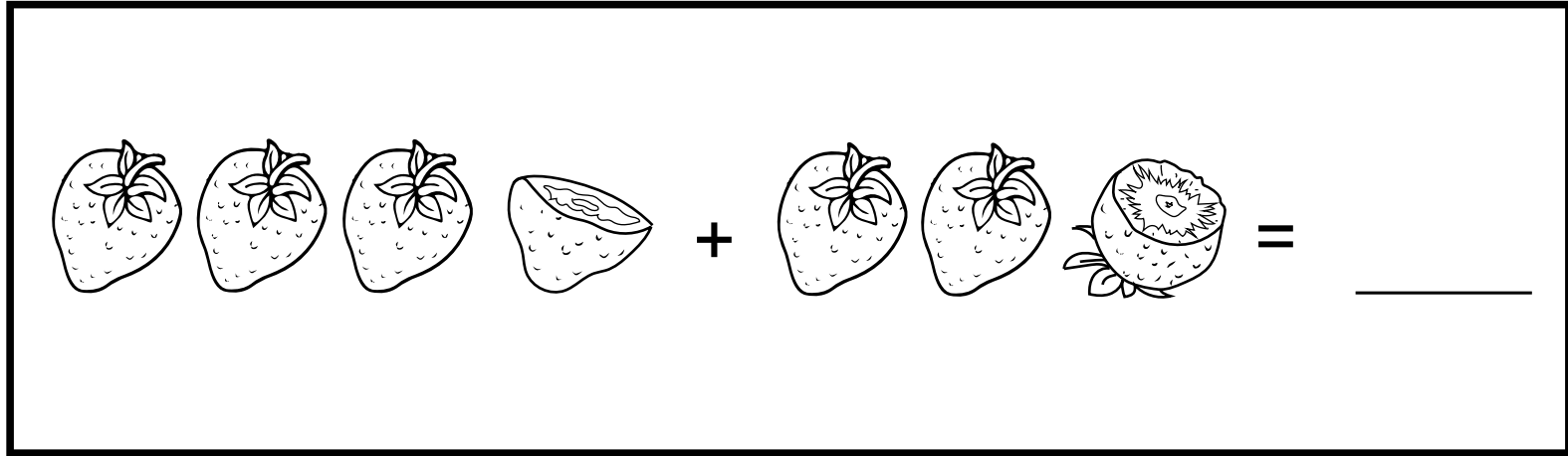


**B**



**C**

Item 4



If you eat  $3\frac{1}{2}$  strawberries and your friend eats  $2\frac{1}{2}$  more, how many strawberries did you eat all together?

4

A

5

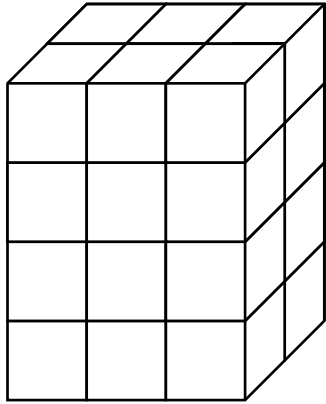
B

6

C



Item 5



H = 4 ft

W = 3 ft

L = 2 ft

Volume = Length x Width x Height

$V = L \times W \times H$

$V = 2 \times 3 \times 4 = \underline{\quad}$

How many cubic feet is this box?

20

A

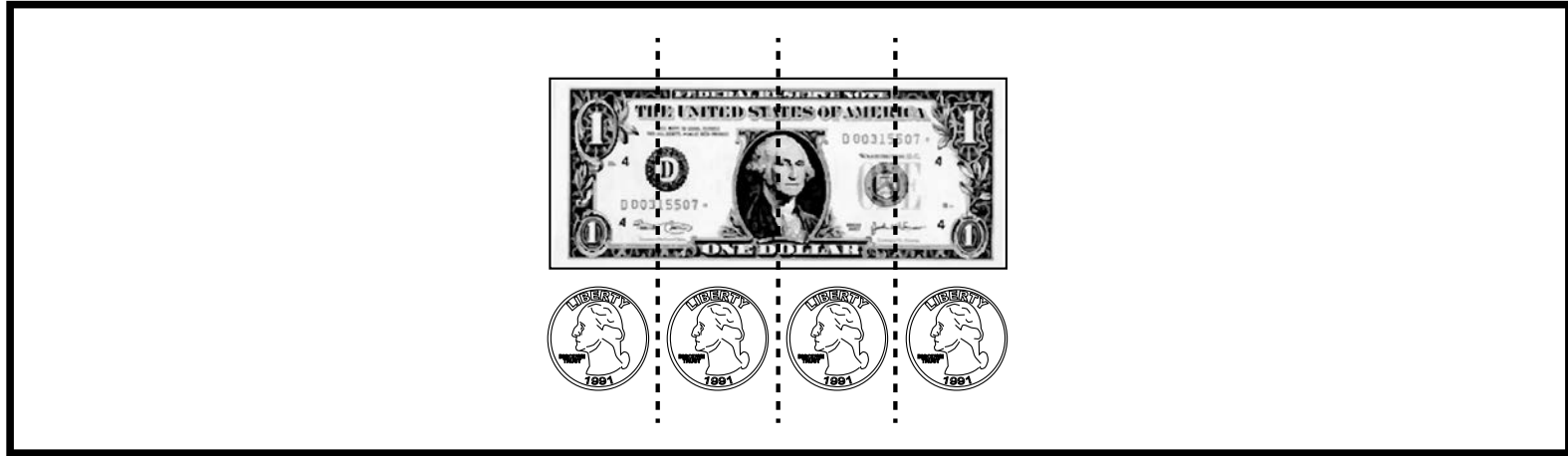
22

B

24

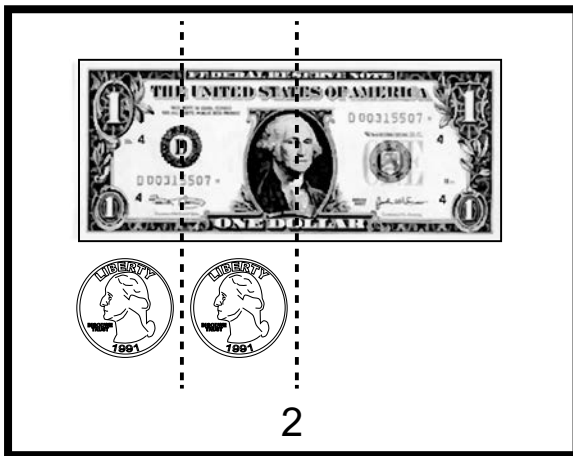
C

Item 6

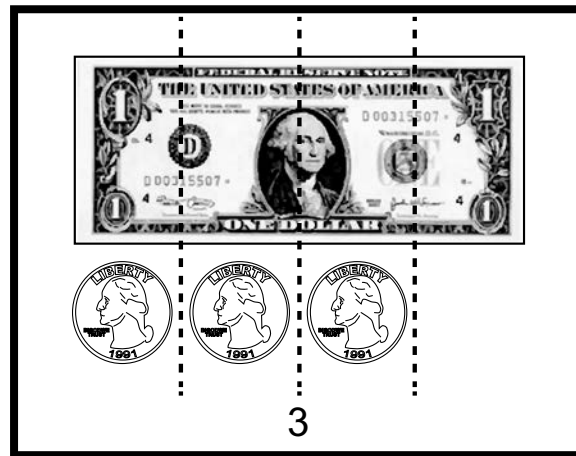


One quarter is  $\frac{1}{4}$  of a dollar.

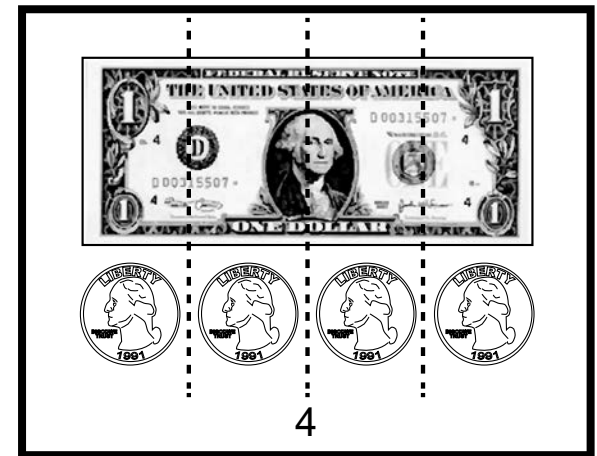
If we take  $\frac{3}{4}$  of a dollar, how many quarters would that be?



A

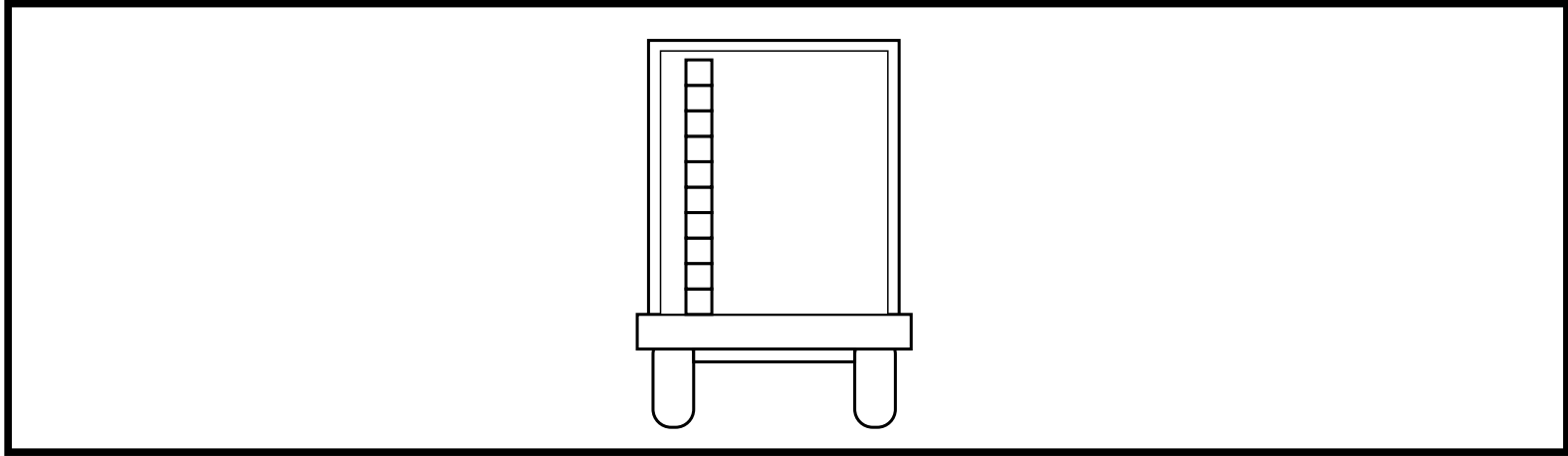


B



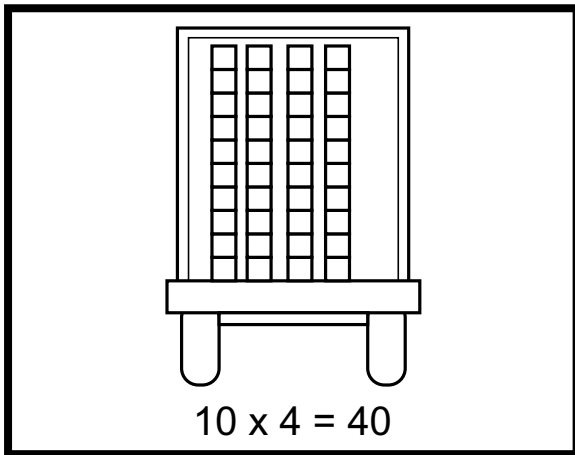
C

Item 7

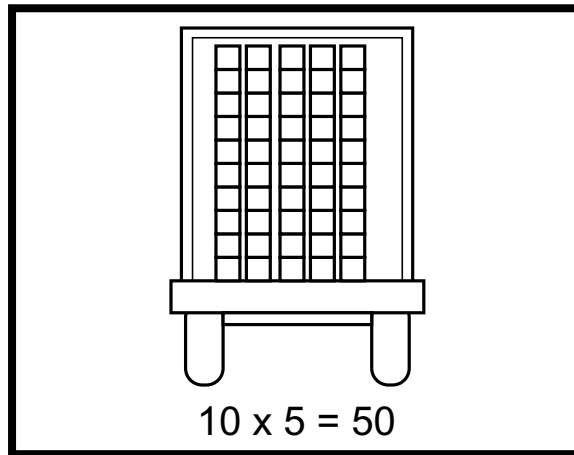


Dave puts 10 boxes in a truck each hour. Here is a picture of the truck after one hour.

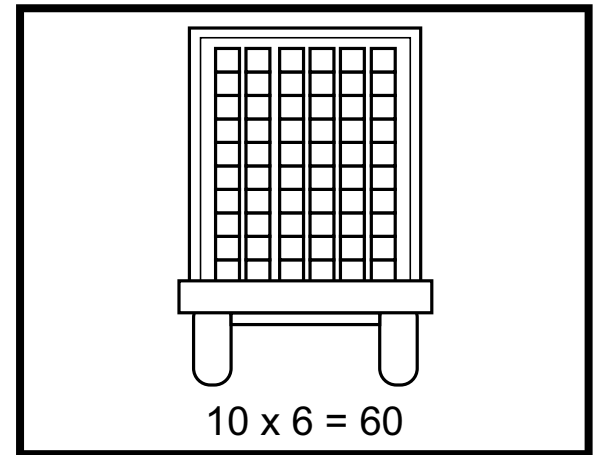
How many boxes does he put in the truck in 4 hours?



**A**

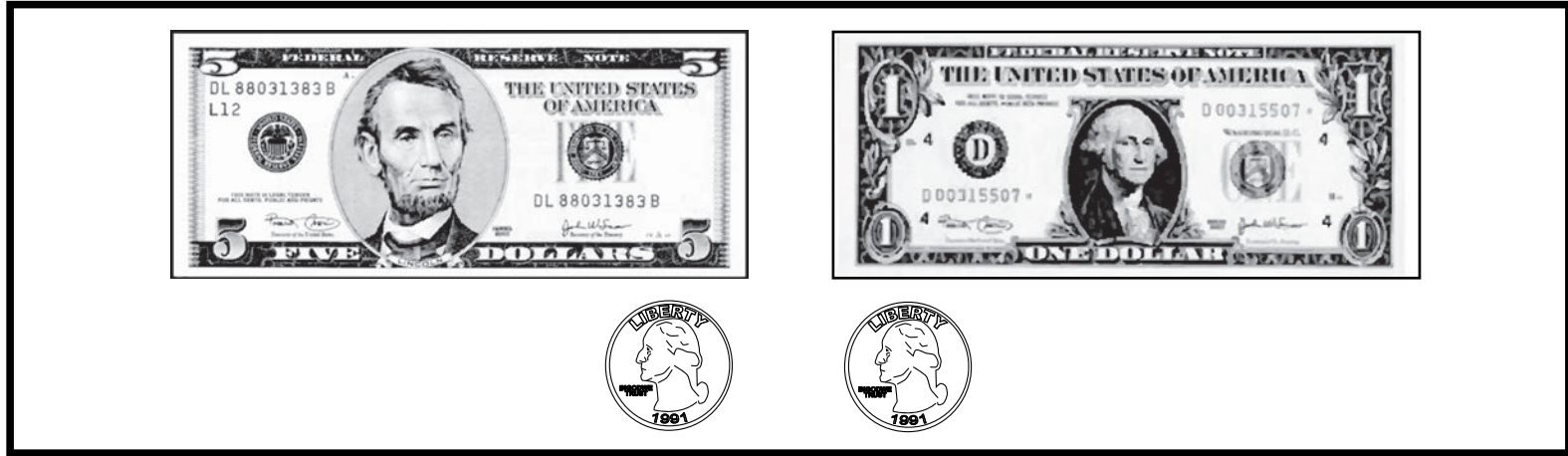


**B**

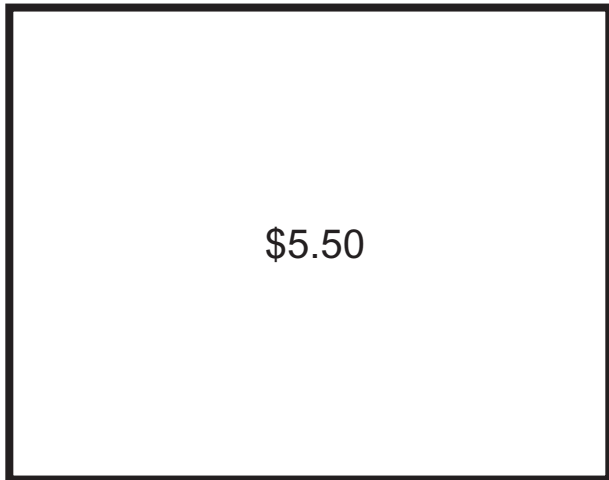


**C**

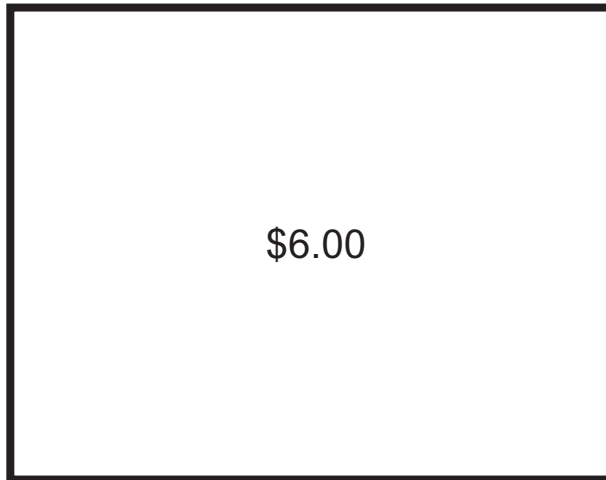
Item 8



If Terrell has a five dollar bill, a one dollar bill, and two quarters, how much money does he have altogether?



A

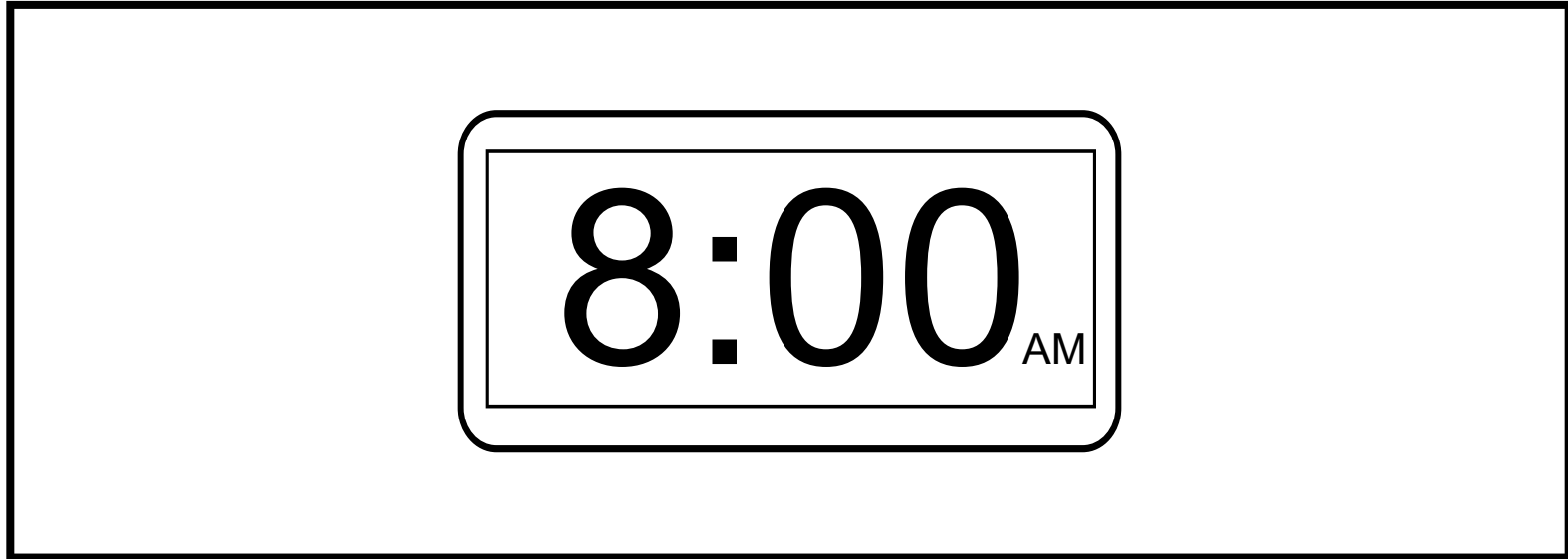


B

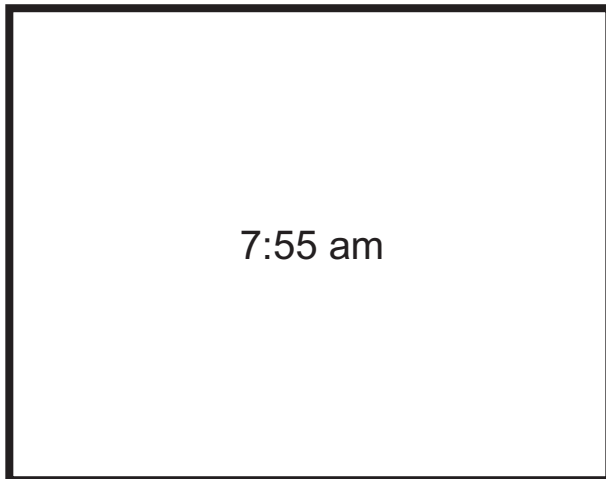


C

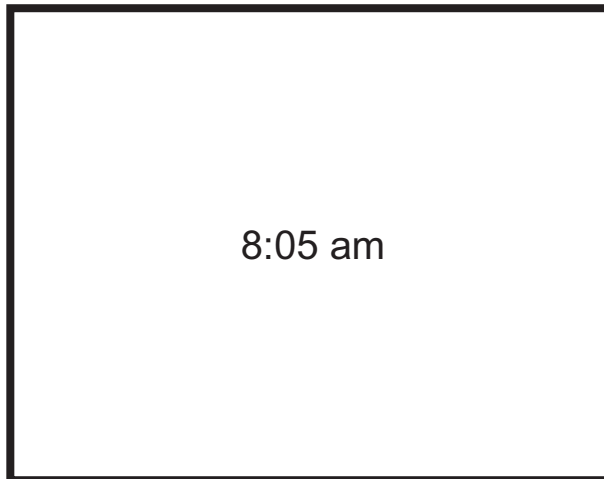
Item 9



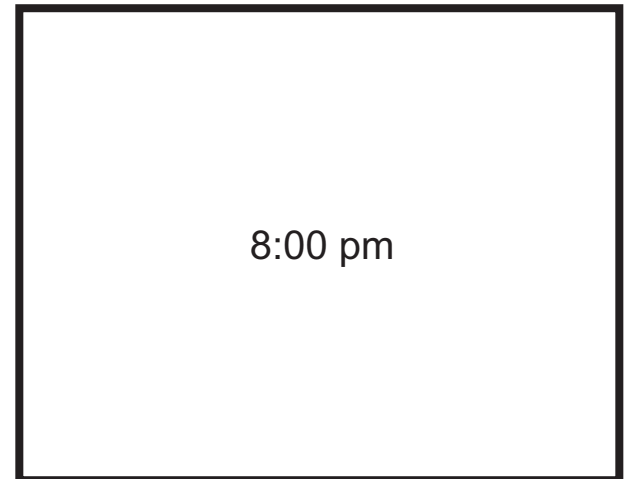
If the bus comes in 5 minutes, what time will it be?



**A**

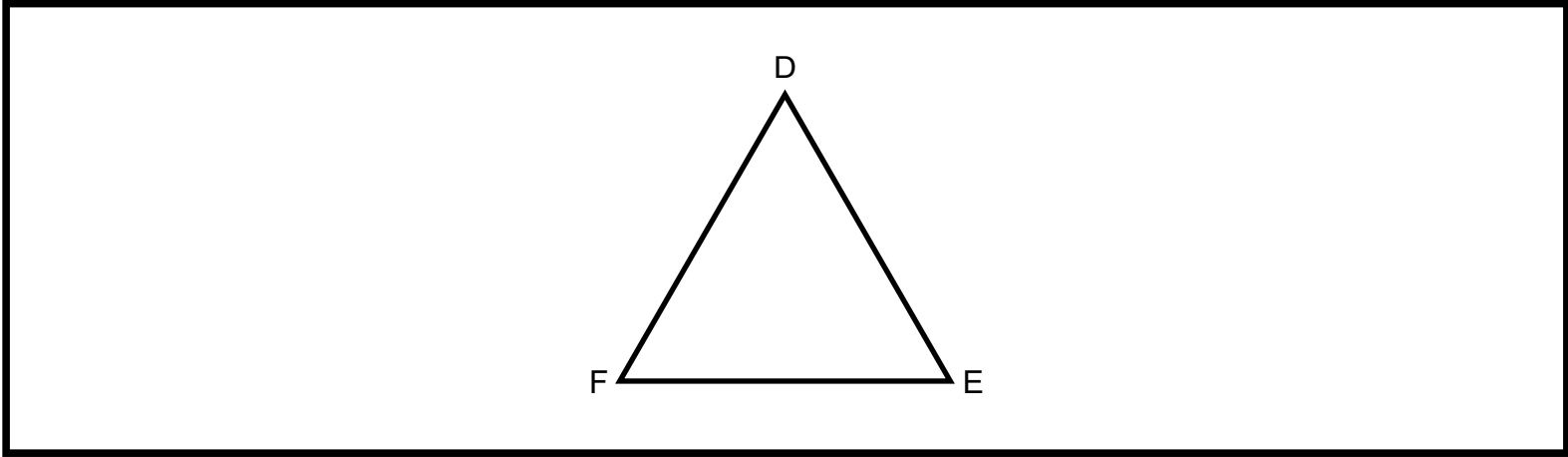


**B**



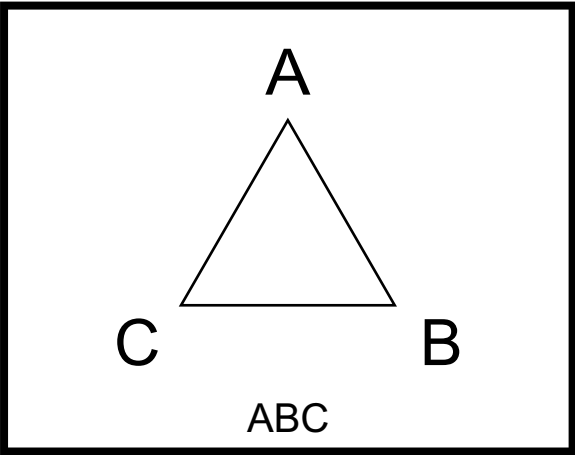
**C**

Item 10

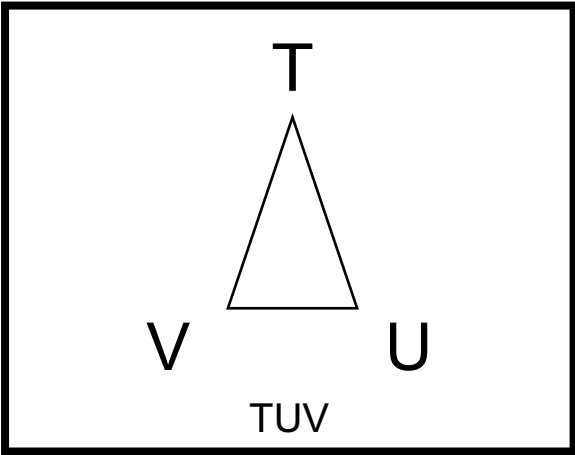


A triangle is similar to another triangle if it has the same shape, but is a different size.

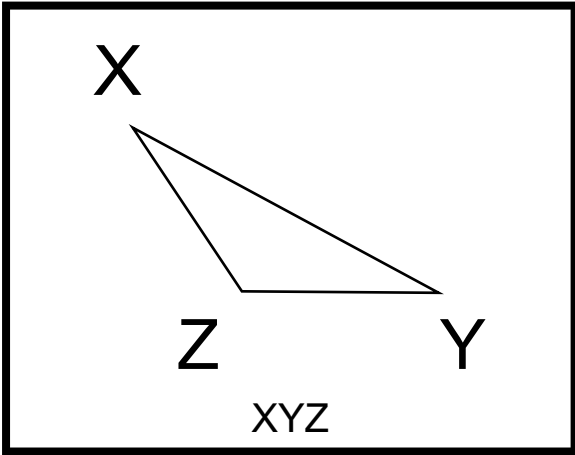
Which triangle is similar to triangle DEF?



A

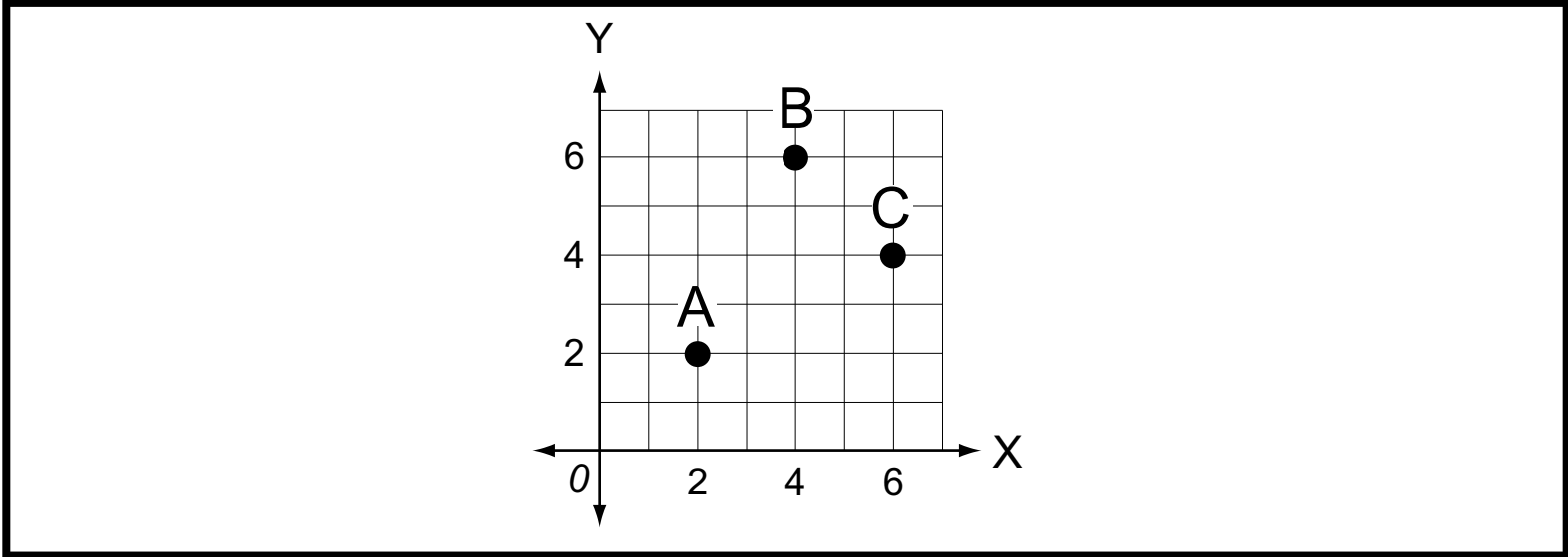


B



C

Item 11



Which point has the coordinates (6, 4) ?

A

**A**

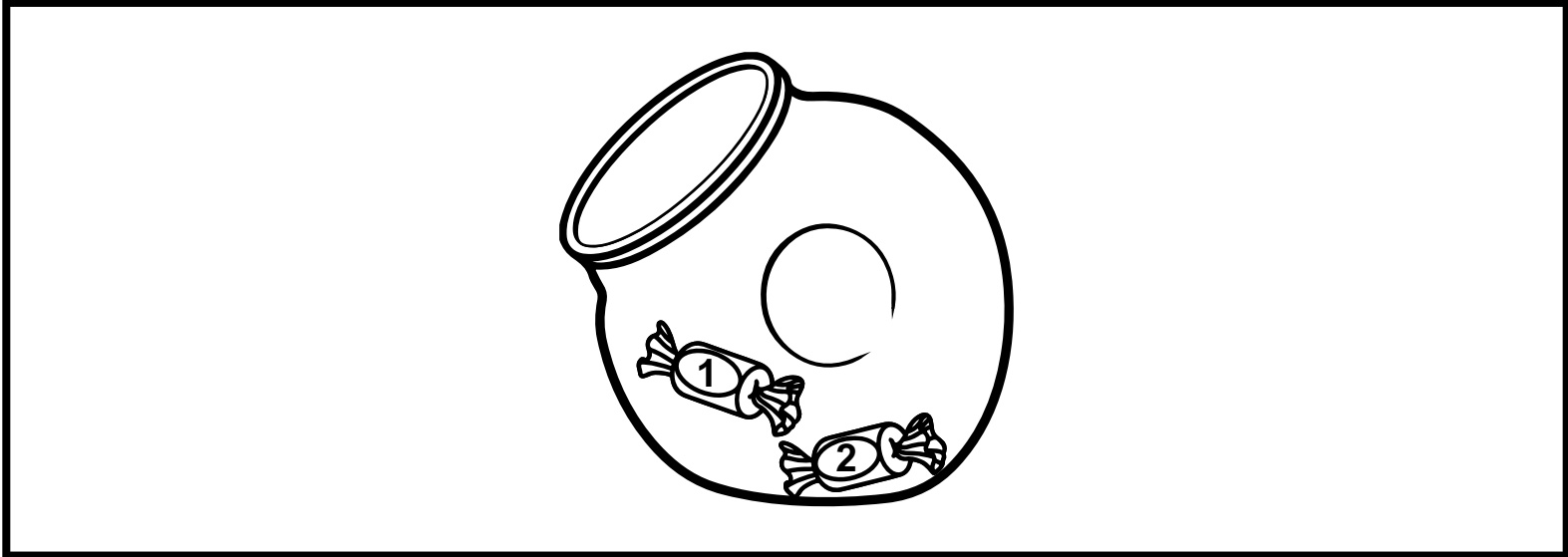
B

**B**

C

**C**

Item 12



If you select a piece of candy without looking, what is the probability it is the piece with a 1 on it?

0%

**A**

25%

**B**

50%

**C**



Item 13

3 math problems + \_\_\_\_ math problems  
is more than 5 math problems.

Mia has solved 3 math problems.

How many more math problems does Mia need to solve if her goal is to solve more than 5 problems?

1

**A**

2

**B**

3

**C**

