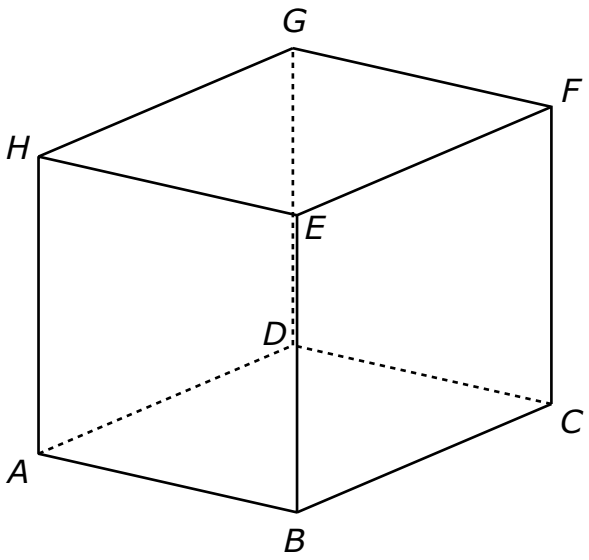
Kentucky Summative Assessments

Grade 7 Mathematics
Released Items
2024

1

MA0720061_4

A plane slices the cube shown through vertices *H*, *F*, and *B*.



Which type of triangle represents the cross-section that results from plane *HFB* slicing the cube?

A scalene

B right

C isosceles

D equilateral

Released Item Performance

Kentucky Summative Assessments

Spring 2024
Grade 7
Mathematics

Item: MA0720061
Book Question Number: 1

Standard: KY.7.G.3

Item Type: MC
Key: D

Student Group	Number of Students	Percent Correct	Average Item Score	Item Breakout Statistics - Answer Choice Options			
				A (%)	B (%)	C (%)	D (%)
All Students	**24,660**	30%	0.30	18%	23%	29%	30%
Gender							
Female	**12,152**	29%	0.29	18%	23%	30%	29%
Male	**12,508**	31%	0.31	18%	23%	28%	31%
Ethnicity							
African American	**2,601**	29%	0.29	18%	22%	31%	29%
American Indian or Alaska Native	**30**	23%	0.23	17%	37%	23%	23%
Asian	**498**	34%	0.34	15%	22%	30%	34%
Hispanic or Latino	**2,177**	28%	0.28	19%	22%	31%	28%
Native Hawaiian or Pacific Islander	**56**	21%	0.21	21%	25%	32%	21%
White (non-Hispanic)	**18,027**	30%	0.30	18%	23%	29%	30%
Two or more races	**1,271**	29%	0.29	17%	24%	30%	29%
Migrant	**117**	19%	0.19	19%	21%	41%	19%
English Learner	**945**	30%	0.30	17%	21%	32%	30%
Economically Disadvantaged	**14,663**	28%	0.28	19%	23%	30%	28%
Students with Disabilities	**1,822**	32%	0.32	18%	23%	27%	32%

2

MA0720084_3

A student spins the arrow on a spinner and tosses a fair coin[1] onto a table.

- The spinner is divided into 4 equal-sized sections.
- Each section on the spinner is a different color.
- The colors of the sections are red, yellow, blue, and green.

Which set of statements is true about the probability of the spinner stopping on yellow and the coin landing on tails?

A There are 6 possible outcomes for this situation. The probability of the spinner landing on yellow and the coin landing on tails is $\frac{1}{6}$.

B There are 6 possible outcomes for this situation. The probability of the spinner landing on yellow and the coin landing on tails is $\frac{2}{6}$.

C There are 8 possible outcomes for this situation. The probability of the spinner landing on yellow and the coin landing on tails is $\frac{1}{8}$.

D There are 8 possible outcomes for this situation. The probability of the spinner landing on yellow and the coin landing on tails is $\frac{2}{8}$.

[1]fair coin–a coin where one side is referred to as heads and one side is referred to as tails

Released Item Performance

Kentucky Summative Assessments

Spring 2024
Grade 7
Mathematics

Item: MA0720084
Book Question Number: 2

Standard: KY.7.SP.8.a

Item Type: MC
Key: C

Student Group	Number of Students	Percent Correct	Average Item Score	Item Breakout Statistics - Answer Choice Options			
				A (%)	B (%)	C (%)	D (%)
All Students	**36,689**	37%	0.37	19%	27%	37%	17%
Gender							
Female	**18,095**	35%	0.35	20%	27%	35%	18%
Male	**18,594**	38%	0.38	19%	26%	38%	17%
Ethnicity							
African American	**3,829**	28%	0.28	21%	34%	28%	17%
American Indian or Alaska Native	**44**	34%	0.34	11%	39%	34%	16%
Asian	**743**	47%	0.47	15%	19%	47%	19%
Hispanic or Latino	**3,188**	33%	0.33	19%	30%	33%	18%
Native Hawaiian or Pacific Islander	**76**	34%	0.34	17%	26%	34%	22%
White (non-Hispanic)	**26,917**	38%	0.38	19%	26%	38%	17%
Two or more races	**1,892**	36%	0.36	20%	27%	36%	18%
Migrant	**169**	28%	0.28	18%	28%	28%	27%
English Learner	**1,380**	28%	0.28	22%	33%	28%	18%
Economically Disadvantaged	**21,842**	32%	0.32	21%	30%	32%	17%
Students with Disabilities	**2,799**	31%	0.31	25%	30%	31%	14%

3 MA0720076

In a survey, 60 randomly selected students were each asked to select one new activity listed that they would like to join. The table shows the results of the survey.

New Activity Survey Results

Activity	Total Number of Students
Archery	9
Baseball	15
Running	12
Soccer	6
Volleyball	18

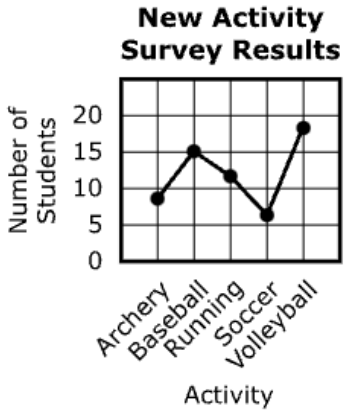
There are 575 students in the school. Which display is the **most** appropriate for the principal to use to determine the total number of students in the entire school who would be likely to select Archery as their activity?

○ A. **New Activity Survey Results**

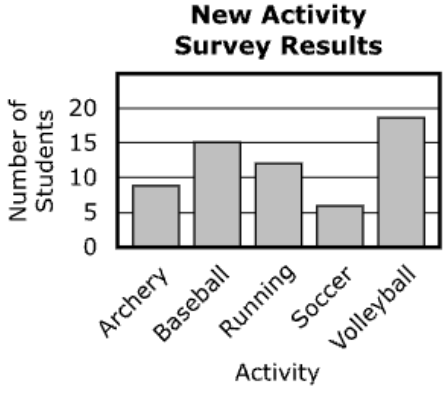
Activity	Number of Students
Archery	3
Baseball	5
Running	4
Soccer	2
Volleyball	6

KEY
Each ♀ represents 3 students.

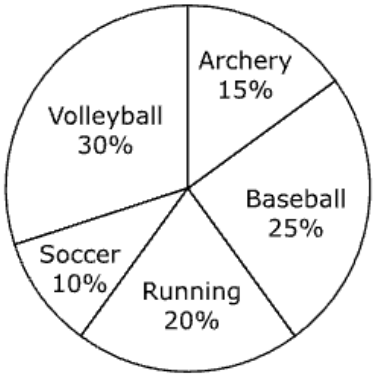
○ B.



○ C.



○ D. **New Activity Survey Results**



Released Item Performance

Kentucky Summative Assessments

Spring 2024
Grade 7
Mathematics

Item: MA0720076
Book Question Number: 3

Standard: KY.7.SP.0

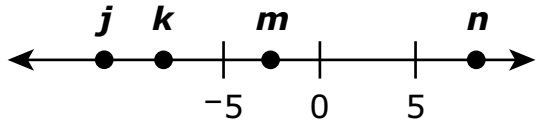
Item Type: MC
Key: D

Student Group	Number of Students	Percent Correct	Average Item Score	Item Breakout Statistics - Answer Choice Options			
				A (%)	B (%)	C (%)	D (%)
All Students	**24,304**	43%	0.43	25%	7%	25%	43%
Gender							
Female	**11,997**	42%	0.42	25%	7%	26%	42%
Male	**12,307**	45%	0.45	24%	7%	24%	45%
Ethnicity							
African American	**2,558**	35%	0.35	29%	11%	25%	35%
American Indian or Alaska Native	**30**	60%	0.60	27%	3%	10%	60%
Asian	**502**	55%	0.55	20%	2%	24%	55%
Hispanic or Latino	**2,093**	38%	0.38	24%	9%	29%	38%
Native Hawaiian or Pacific Islander	**48**	35%	0.35	21%	10%	33%	35%
White (non-Hispanic)	**17,833**	45%	0.45	24%	6%	25%	45%
Two or more races	**1,240**	43%	0.43	28%	7%	22%	43%
Migrant	**113**	29%	0.29	32%	10%	29%	29%
English Learner	**894**	29%	0.29	27%	10%	34%	29%
Economically Disadvantaged	**14,402**	39%	0.39	26%	8%	27%	39%
Students with Disabilities	**1,872**	36%	0.36	28%	10%	26%	36%

4

MA0720037

The number line shows points j, k, m, and n, with $|k| = |n|$.



Use the number line to determine if each given expression is greater than 0, equal to 0, or less than 0. Explain how you know.

$$j + k$$
$$k + n$$
$$m + n$$
$$k + m$$

Enter your answers and your explanations in the space provided.

Released Item Performance

Kentucky Summative Assessments

Spring 2024
Grade 7
Mathematics

Item: MA0720037
Book Question Number: 4

Standard: KY.7.NS.1.b

Item Type: ER
Key: Rubric

Student Group	Number of Students	Percent Correct	Average Item Score	Item Breakout Statistics - Score Percentages				
				Score 0 (%)	Score 1(%)	Score 2 (%)	Score 3 (%)	Score 4 (%)
All Students	**32,987**	32.5%	1.30	52%	6%	19%	7%	17%
Gender								
Female	**15,993**	32.9%	1.32	51%	7%	18%	7%	17%
Male	**16,994**	32.1%	1.29	53%	5%	20%	6%	17%
Ethnicity								
African American	**3,461**	17.1%	0.68	71%	5%	14%	4%	6%
American Indian or Alaska Native	**39**	35.9%	1.44	54%	5%	10%	5%	26%
Asian	**695**	48.1%	1.93	37%	7%	15%	9%	32%
Hispanic or Latino	**3,215**	23.9%	0.96	63%	5%	16%	6%	10%
Native Hawaiian or Pacific Islander	**71**	25.0%	1.00	63%	3%	17%	4%	13%
White (non-Hispanic)	**23,819**	35.8%	1.43	48%	6%	20%	7%	19%
Two or more races	**1,687**	28.8%	1.15	56%	6%	19%	6%	13%
Migrant	**170**	13.5%	0.54	77%	5%	11%	1%	6%
English Learner	**1,956**	9.8%	0.39	82%	3%	10%	2%	3%
Economically Disadvantaged	**20,221**	25.7%	1.03	60%	6%	18%	5%	11%
Students with Disabilities	**4,825**	13.4%	0.54	77%	3%	13%	2%	4%

Rubric

Rubric	
Score Point 4	Student demonstrates a complete understanding of interpreting sums of rational numbers and showing that a number and its opposite have the sum of 0.
Score Point 3	Student scores 3 points.
Score Point 2	Student scores 2 points.
Score Point 1	Student demonstrates a minimal understanding of interpreting sums of rational numbers and showing that a number and its opposite have the sum of 0.
Score Point 0	Student response is completely incorrect or irrelevant.
Blank	No student response.

Score Points	• Score 4 points:
	  ○ Includes all 4 expressions correctly compared to 0 with complete and correct explanations.
	• Score 3 points
	  ○ Includes 3 or 4 expressions correctly compared to 0 with explanations for at least 2 of the expressions. **OR**
	  ○ Includes 3 expressions correctly compared to 0 with correct and complete explanations for each.
	• Score 2 points:
	  ○ Includes 3 or 4 expressions correctly compared to 0 with partial or no explanations.
	• Score 1 point
	  ○ Includes 1 or 2 expressions correctly compared to 0 with a valid explanation(s).

Correct Answers	$j + k < 0$ $k + n = 0$ $m + n > 0$ $k + m < 0$ $j + k < 0$ To add j and k, I can start at point j and move $\|k\|$ units from j. Since k is also negative, I need to move left, which guarantees the answer is less than 0. $k + n = 0$ Since the numbers k and n have the same absolute value, they are equidistant from 0, and their sum will be 0. I can start at k and move $\|n\|$ units to the right or start at n and move $\|k\|$ units to the left since k is negative. Either will end at 0. $m + n > 0$ m is closer to zero so it has a lesser absolute value. When I move that distance from n, the position will still be to the right of zero and so the answer will be positive. $k + m < 0$ k and m are both negative numbers, and when I use the number line, if I start at k and move $\|m\|$ units to the left, the result will be farther to the left of 0.

Anchor Set

A1

$j < 0$
$k < 0$
$m < 0$
$n > 0$

Anchor Annotation, Paper 1
Score Point 0

This response receives no credit. None of the expressions are correctly compared to 0.

The response explains where each of the variables falls on the number line (j < 0 k <0 m < 0 and n > 0).

A2

j is less than 0 k is less than 0 m is less than 0 and n is greater than 0

Anchor Annotation, Paper 2
Score Point 0

This response receives no credit. None of the expressions are correctly compared to 0.

The response explains where each of the variables falls on the number line (j is less than 0 k is less than 0 m is less than 0 and n is greater than 0).

A3

$j + k > 0$
$k + n > 0$
$m + n > 0$
$k + m > 0$

Anchor Annotation, Paper 3
Score Point 0

This response receives no credit. Only one of the four expressions is correctly compared to 0; however, with no explanation ($m + n > 0$) no credit is given.

A4

$j + k$ are both on the negative side so it would equal a positive so greater than 0.
$k + n$ are opposites in absolute value so together they equal 0
$m + n$ one is on the positive side and one on the negative side so it would have to be a negative so less than 0
$k + m$ they are both on the negative side so it would be a negative and a negative so positive so greater than 0

Anchor Annotation, Paper 4
Score Point 1

This response receives partial credit. It includes one of the four expressions correctly compared to 0, with an explanation.

- $k + n$ (are opposites in absolute value so together they equal 0). Although the two variables have the same, not opposite, absolute value, the meaning is sufficiently clear to receive credit.

The expressions $j + k$ (greater than 0), $m + n$ (less than 0), and $k + m$ (greater than 0) are all compared incorrectly to 0. The explanations are based on rules of multiplication, rather than addition.

A5

$J + K$ is greater than 0 because if you estimate the numbers you get -10 and -8 which equals 18.
$K + N$ is equal to 0 because if you estimate the numbers you get -8 and 8 which equals 0.
$M + N$ is greater than 0 because if you estimate the numbers you get -3 and 8 which equals 5.
$K + M$ is greater than 0 because if you estimate the numbers you get -7.5 and -(-3) which equals 10.5.

Anchor Annotation, Paper 5
Score Point 1

This response receives partial credit. It includes two of the four expressions correctly compared to 0, with explanations.

- $k + n$ (is equal to 0 because if you estimate the numbers you get -8 and 8 which equals 0). Using numbers that are consistent with the number line provides an acceptable explanation.

- $m + n$ (is greater than 0 because if you estimate the numbers you get -3 and 8 which equals 5).

The expressions $j + k$ and $k + m$ are compared incorrectly to 0 (greater than 0...equals 18; greater than 0...equals 10.5).

If you add j and k then the sum will be less than 0. I say that because if you add two negative numbers together you will get a negative number. Negative numbers are less than 0.

If you add k and n together your sum will be less than zero. Its less than zero because if add a negative number to a positive number you will get a number less than 0.

The sum of m and n will be a negative number because a negative number plus a positive number is a negative number.

If k and m was put together then the answer or sum will be a negative number. If you add two negative numbers together you will get a negative number.

Anchor Annotation, Paper 6
Score Point 1

This response receives partial credit. It includes two of the four expressions correctly compared to 0, with explanations.

- $j + k$ (the sum will be less than 0…because if you add two negative numbers together you will get a negative number).
- $k + m$ (the answer or sum will be a negative number. If you add two negative numbers together you will get a negative number).

The expressions $k + n$ and $m + n$ are compared incorrectly to 0 (less than zero; negative number plus a positive number is a negative number).

A7

$j + k$ is less than 0
$k + n$ is equal to 0
$m + n$ is greater than 0
$k + m$ is greater than 0

Anchor Annotation, Paper 7
Score Point 2

This response receives partial credit. It includes three of the four expressions correctly compared to 0, with no explanations.

- $j + k$ (less than 0).
- $k + n$ (equal to 0).
- $m + n$ (greater than 0).

The expression $k + m$ is incorrectly identified as being greater than 0.

A8

$j + k < 0$
$k + n = 0$
$m + n > 0$
$k + m < 0$

Anchor Annotation, Paper 8
Score Point 2

This response receives partial credit. It includes all four expressions correctly compared to 0 with no explanations.

- $j + k$ (< 0).
- $k + n$ ($= 0$).
- $m + n$ (> 0).
- $k + m$ (< 0).

A9

$j + k$ = *less* than 0
$k + n$ = *equal* to 0
$m + n$ = *greater* than 0
$k + m$ = *less* than 0

Anchor Annotation, Paper 9
Score Point 2

This response receives partial credit. It includes all four expressions correctly compared to 0 with no explanations.

- $j + k$ (< 0).
- $k + n$ ($= 0$).
- $m + n$ (> 0).
- $k + m$ (< 0).

A10

$j + k$ is less than 0 because both of them are negative. $k + n$ is grater than 0 because n is further than the k on its side.
$m + n$ is greater than 0 beause m is right behind 0. $k + m$ is less than 0 beause both of them are one the negaitve side.

Anchor Annotation, Paper 10
Score Point 3

This response receives partial credit. It includes three of four expressions correctly compared to 0 with complete explanations for each.

- $j + k$ (is less than 0 because both of them are negative).
- $m + n$ (is greater than 0 beause m is right behind 0). This is taken to mean that the absolute value of m is smaller than the absolute value of n.
- $k + m$ (is less than 0 beause both of them are one the negaitve side).

The expression $k + n$ is incorrectly compared to 0 (grater than 0).

$j + k$ is less than 0 because it is negative.
$k + n$ is less than 0 because it is also negative.
$m + n$ is greater than 0 because a negative plus a bigger positive is greater than 0.
$k + m$ is less than 0 because a negative plus a negative is an even bigger negative & that also goes for $j + k$ and $k + n$ as well.

Anchor Annotation, Paper 11
Score Point 3

This response receives partial credit. It includes three of four expressions correctly compared to 0 with complete explanations for each.

- $j + k$ *(*is less than 0...a negative plus a negative is an even bigger negative...goes for $j + k$...as well). The statement in the first line (because it is negative) is not a valid explanation, since it does not seem to be explaining that the variables are both negative.
- $m + n$ *(*is greater than 0 because a negative plus a bigger positive is greater than 0).
- $k + m$ (is less than 0 because a negative plus a negative is an even bigger negative).

The expression $k + n$ is incorrectly compared to 0 (is less than 0).

1. Both of the numbers are in the negatives and a negative plus a negative equals a bigger negative
2. It also equals a zero because the K is equal in the negatives as N is in the positives
3. It equals a positive because both numbers are positive a positive plus a positive equals a greater positive
4. It equals a negative because k is greater in the negatives than m is in the positives

Anchor Annotation, Paper 12
Score Point 3

This response receives partial credit. It includes all 4 expressions correctly compared to 0 with two complete explanations.

- $j + k$ (a negative plus a negative equals a bigger negative).
- $k + n$ (It also equals a zero because the K is equal in the negatives as N is in the positives).
- The expressions $m + n$ and $k + m$ are both correctly compared to zero.

The expression $m + n$ is correctly compared to zero (equals a positive), but the explanation is incorrect (a positive plus a positive equals a greater positive), since m is negative.

The expression $k + m$ is correctly compared to zero (equals a negative), but the explanation is incorrect (k is greater in the negatives than m is in the positives), since m is negative.

Note: The student has used numbers rather than copying the expressions into the response which is acceptable for credit. The numbers are assigned based on the sequence of the expressions in the prompt.

$j = k < 0$ because two negatives cant equal a positive.

$k + n = 0$ because they are equal distance to the 0 on the numberline

$m + n > 0$ Because one is a negative and one is a positive and the positive is farther from the numberline than the negative therfore is is a positive

$k + m < 0$ because they are both negative and two negatives cant equal a positive

Anchor Annotation, Paper 13
Score Point 4

This response receives full credit. It includes all 4 expressions correctly compared to 0 with complete explanations.

- $j + k$ (< 0 because two negatives cant equal a positive). The equals sign ($j = k$) is taken as a typographical error and does not detract from demonstrating complete understanding.
- $k + n$ (= 0 because they are equal distance to the 0 on the numberline).
- $m + n$ (> 0 Because...the positive is farther from the numberline than the negative therfore is is a positive). "farther from the numberline" is taken to mean farther from 0.
- $k + m$ (< 0 because they are both negative).

$J + k$ is less than zero because they both are negative.
$k + n$ is equal to zero because a negative pluse its positive is always going to be no less than or greater than zero.
$m + n$ is greater than zero because n is a higher positive than m.
$k + m$ is less than zero because they are booth negatives.

Anchor Annotation, Paper 14
Score Point 4

This response receives full credit. It includes all 4 expressions correctly compared to 0 with complete explanations.

- $j + k$ (is less than zero because they are both negative).
- $k + n$ (is equal to zero because a negative pluse its positive is always going to be no less than or greater than zero).
- $m + n$ (is greater than zero because n is a higher postive than m). This is taken to mean that n has a greater absolute value, not that m is positive.
- $k + m$ (is less than zero because they are booth negatives).

$J + K$ is less than 0 because both numbers are less than 0 and negitive so if you add them together you would get a negitive numbe that is less than 0.
$K + N$ is equal to zero because K and N are the absolute value of each other so if you add them together you would get a number equal to zero.
$M + N$ would be greater than zero because M is a negitive number but N is a positive number and N is a bigger positive number than M is as a negative number. And finally $K + M$ would be less than zero because they are both negitive numbers so when they are added together they will give you a negitive number.

Anchor Annotation, Paper 15
Score Point 4

This response receives full credit. It includes all 4 expressions correctly compared to 0 with complete explanations.

- $j + k$ (is less than 0 because both numbers are less than 0 and negitive).
- $k + n$ (is equal to zero because K and N are the absolute value of each other so if you add them together you would get a number equal to zero).
- $m + n$ (would be greater than zero because...N is a bigger positive number than M is as a negitive number).
- $k + m$ (would be less than zero because they are both negitive numbers).

5

MA0720097_4

A recipe for homemade pickles includes spices and vinegar. The table shows the relationship between the amount, in cups, of spices, x, and vinegar, y, used to make the recipe.

Spices and Vinegar

x	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$
y	1.5	3	6

What is the value of the constant of proportionality in this situation?

A $1\frac{1}{2}$

B 2

C 4

D 12

Released Item Performance

Kentucky Summative Assessments

Spring 2024
Grade 7
Mathematics

Item: MA0720097*
Book Question Number: 5

Standard: KY.7.RP.2.b

Item Type: MC
Key: D

Student Group	Number of Students	Percent Correct	Average Item Score	Item Breakout Statistics - Answer Choice Options			
				A (%)	B (%)	C (%)	D (%)
All Students	**33,664**	30%	0.30	30%	25%	14%	30%
Gender							
Female	**16,285**	33%	0.33	29%	24%	14%	33%
Male	**17,379**	28%	0.28	31%	26%	15%	28%
Ethnicity							
African American	**3,690**	25%	0.25	33%	24%	18%	25%
American Indian or Alaska Native	**42**	24%	0.24	33%	26%	17%	24%
Asian	**711**	47%	0.47	19%	27%	8%	47%
Hispanic or Latino	**3,284**	25%	0.25	33%	24%	18%	25%
Native Hawaiian or Pacific Islander	**73**	34%	0.34	27%	30%	8%	34%
White (non-Hispanic)	**24,157**	31%	0.31	30%	25%	13%	31%
Two or more races	**1,707**	28%	0.28	32%	27%	14%	28%
Migrant	**180**	24%	0.24	35%	22%	19%	24%
English Learner	**1,994**	22%	0.22	37%	21%	20%	22%
Economically Disadvantaged	**20,649**	27%	0.27	33%	24%	16%	27%
Students with Disabilities	**4,986**	24%	0.24	38%	20%	18%	24%

* Calculator section

6

MA0720142_2

Sean has $125.40 in a savings account. He wants to determine how much he can spend each month and still have at least $45 in the savings account at the end of 6 months. Which inequality describes the solution set for the amount of money Sean can spend per month and have at least $45 left in the savings account after 6 months?

A $x \geq 13.40$

B $x \leq 13.40$

C $x \leq 28.40$

D $x \geq 28.40$

Released Item Performance

Kentucky Summative Assessments

Spring 2024
Grade 7
Mathematics

Item: MA0720142*
Book Question Number: 6

Standard: KY.7.EE.4.b

Item Type: MC
Key: B

Student Group	Number of Students	Percent Correct	Average Item Score	Item Breakout Statistics - Answer Choice Options			
				A (%)	B (%)	C (%)	D (%)
All Students	**46,107**	40%	0.40	24%	40%	23%	13%
Gender							
Female	**22,412**	39%	0.39	23%	39%	24%	13%
Male	**23,695**	41%	0.41	24%	41%	22%	12%
Ethnicity							
African American	**4,972**	35%	0.35	21%	35%	30%	15%
American Indian or Alaska Native	**56**	36%	0.36	27%	36%	30%	7%
Asian	**954**	50%	0.50	24%	50%	16%	10%
Hispanic or Latino	**4,385**	36%	0.36	23%	36%	27%	14%
Native Hawaiian or Pacific Islander	**101**	38%	0.38	21%	38%	31%	11%
White (non-Hispanic)	**33,274**	42%	0.42	24%	42%	22%	12%
Two or more races	**2,365**	39%	0.39	23%	39%	26%	12%
Migrant	**236**	33%	0.33	27%	33%	26%	15%
English Learner	**2,484**	32%	0.32	21%	32%	32%	16%
Economically Disadvantaged	**28,115**	37%	0.37	23%	37%	26%	14%
Students with Disabilities	**5,918**	34%	0.34	20%	34%	30%	15%

* Calculator section

7 MA0720057

Rebecca rented a truck at a company. She was charged $29.95 to rent the truck plus $9.50 for each hour. Rebecca was charged a total of $67.95.

- Write an equation that can be used to determine the number of hours, h, Rebecca was charged for renting the truck.
- Solve your equation for h.

Enter **only** your equation and your solution in the space provided.

Equation: ☐

$h =$ ☐

Released Item Performance

Kentucky Summative Assessments

Spring 2024
Grade 7
Mathematics

Item: MA0720057*
Book Question Number: 7

Standard: KY.7.EE.4.a

Item Type: SA
Key: Rubric

Student Group	Number of Students	Percent Correct	Average Item Score	Item Breakout Statistics - Score Percentages		
				Score 0 (%)	Score 1 (%)	Score 2 (%)
All Students	**36,509**	38.0%	0.76	43%	39%	18%
Gender						
Female	**17,998**	38.6%	0.77	43%	37%	20%
Male	**18,511**	37.3%	0.75	42%	41%	17%
Ethnicity						
African American	**3,786**	23.0%	0.46	62%	29%	8%
American Indian or Alaska Native	**44**	29.5%	0.59	52%	36%	11%
Asian	**741**	57.4%	1.15	24%	37%	39%
Hispanic or Latino	**3,174**	32.4%	0.65	49%	36%	14%
Native Hawaiian or Pacific Islander	**75**	29.3%	0.59	53%	35%	12%
White (non-Hispanic)	**26,808**	40.5%	0.81	39%	41%	20%
Two or more races	**1,881**	33.5%	0.67	48%	38%	15%
Migrant	**165**	27.0%	0.54	56%	33%	10%
English Learner	**1,369**	17.3%	0.35	71%	24%	5%
Economically Disadvantaged	**21,713**	30.8%	0.62	51%	36%	13%
Students with Disabilities	**2,770**	23.4%	0.47	65%	24%	12%

* Calculator section

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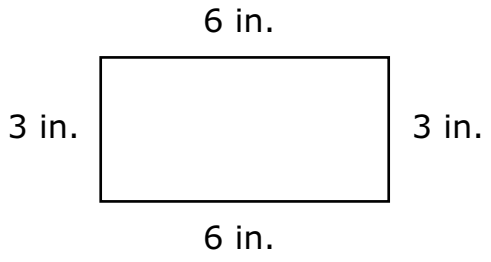
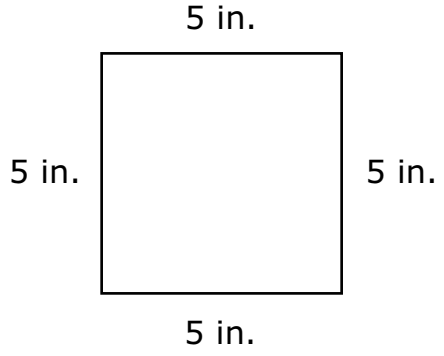
MA0720059_4

Ariana makes a scale model of the garden she wants to build in her backyard. She uses a scale where each $\frac{1}{2}$ inch (in.) in the scale model represents 1.5 feet of the actual garden. The border of the actual garden is 36 feet. Based on the information given, which figure could be used to represent the scale model of Ariana's garden?

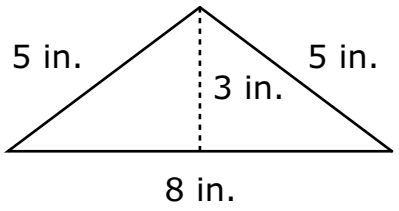
A



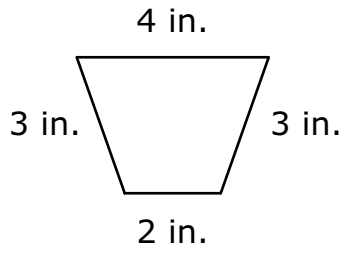
B



C



D



STOP

Released Item Performance

Kentucky Summative Assessments

Spring 2024
Grade 7
Mathematics

Item: MA0720059*
Book Question Number: 8

Standard: KY.7.G.1

Item Type: MC
Key: D

Student Group	Number of Students	Percent Correct	Average Item Score	Item Breakout Statistics - Answer Choice Options			
				A (%)	B (%)	C (%)	D (%)
All Students	**34,101**	26%	0.26	41%	15%	18%	26%
Gender							
Female	**16,480**	24%	0.24	42%	15%	19%	24%
Male	**17,621**	27%	0.27	40%	16%	17%	27%
Ethnicity							
African American	**3,753**	19%	0.19	42%	20%	20%	19%
American Indian or Alaska Native	**42**	21%	0.21	45%	17%	17%	21%
Asian	**708**	36%	0.36	40%	8%	16%	36%
Hispanic or Latino	**3,377**	21%	0.21	42%	19%	18%	21%
Native Hawaiian or Pacific Islander	**81**	25%	0.25	40%	16%	20%	25%
White (non-Hispanic)	**24,394**	27%	0.27	41%	14%	17%	27%
Two or more races	**1,746**	24%	0.24	41%	15%	20%	24%
Migrant	**184**	17%	0.17	41%	23%	18%	17%
English Learner	**2,049**	16%	0.16	42%	25%	18%	16%
Economically Disadvantaged	**20,955**	21%	0.21	42%	18%	18%	21%
Students with Disabilities	**4,949**	17%	0.17	40%	26%	17%	17%

* Calculator section

Investing in Kentucky's Future, One Student at a Time