ACTAAP

Arkansas Comprehensive Testing, Assessment, and Accountability Program

Released Item Booklet

Arkansas Augmented Benchmark Examination

APRIL 2009 ADMINISTRATION

GRADE 7

Arkansas Department of Education

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CALCULATOR NOT PERMITTED—ITEMS 1–3

1

Janet wanted to create a square pyramid and a rectangular prism using 1 straw for each edge of each figure. How many more straws will she need for the rectangular prism than for the square pyramid?

A 0
B 2
☞ **C** 4
D 8

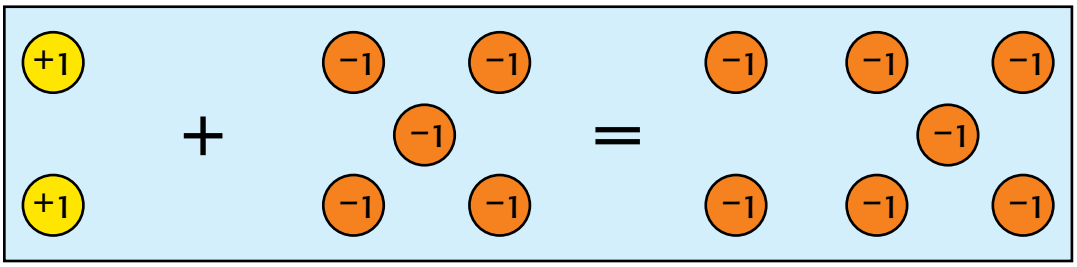
2

KEY	
+1	represents +1
−1	represents −1

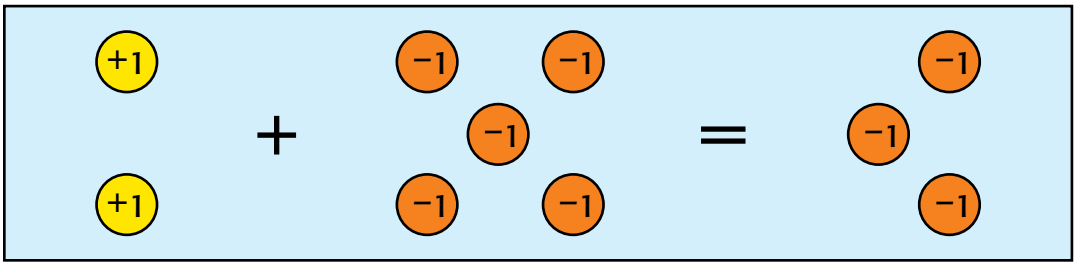
Using the key shown, which correctly models the expression below?

$$2 + -5$$

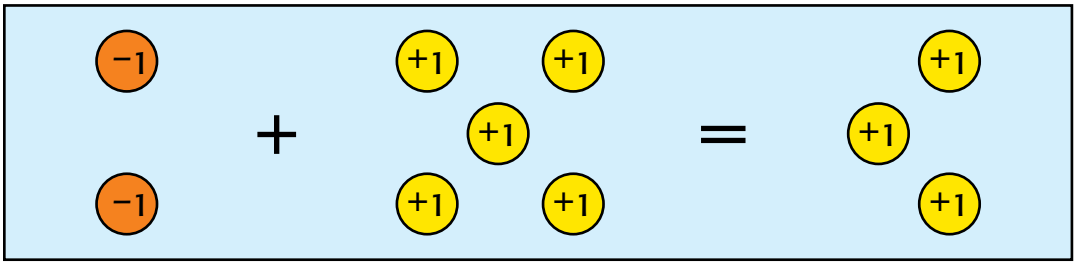
A



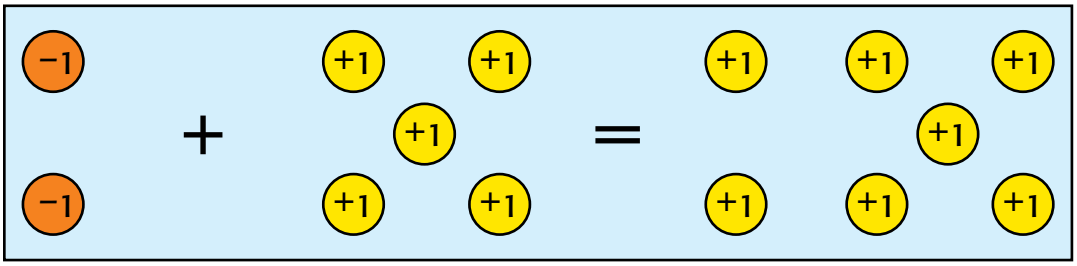
☞ B



C

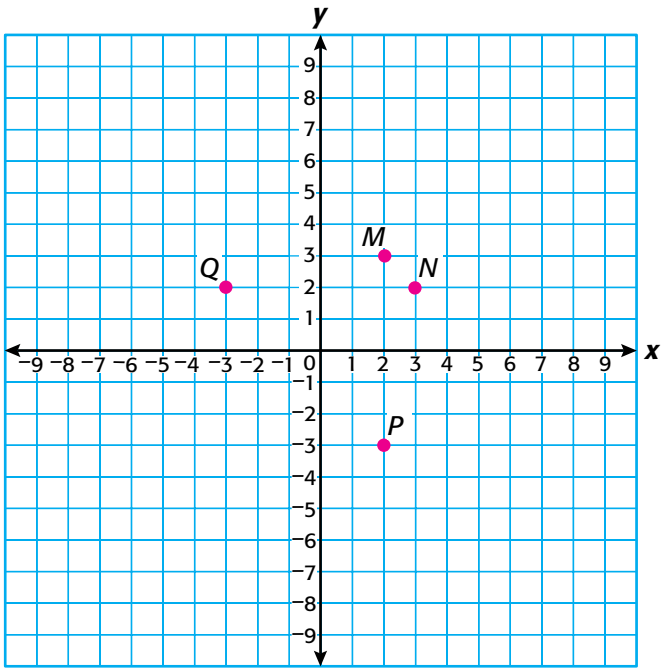


D



3

Which point is best represented by $(^{-}3, 2)$ on the coordinate grid below?



A M
B N
C P
☞ **D** Q

CALCULATOR PERMITTED—ITEMS 4–10 and A–B

4

The regular price of a shirt James bought was $24.99. The shirt was on sale for 15% off the regular price. What was the sale price of James's shirt?

A $24.84
☞ **B** $21.24
C $9.99
D $3.75

5

Which measure for the list of data below has the greatest value?

60, 62, 72, 72, 72, 79, 82, 82, 85, 89, 89, 92, 92, 95, 99

A Mean
☞ **B** Median
C Mode
D Range

6

On April 26, Ben made the statement, "In two days my birthday will have been two weeks ago."

What is the date of Ben's birthday?

A April 12
B April 13
☞ **C** April 14
D April 15

7

What is the value of the expression below when $p = \frac{1}{8}$?

$16p - 10$

☞ **A** -8
B -2
C 8
D 12

8

A rule for a function table is given below.

Multiply the input value by 2 and add that product to 10 to get the output value

Which function table below only has values that follow the rule above?

A

Input	Output
−2	6
0	0
2	14
3	16

B

Input	Output
−2	14
0	0
2	4
3	6

C

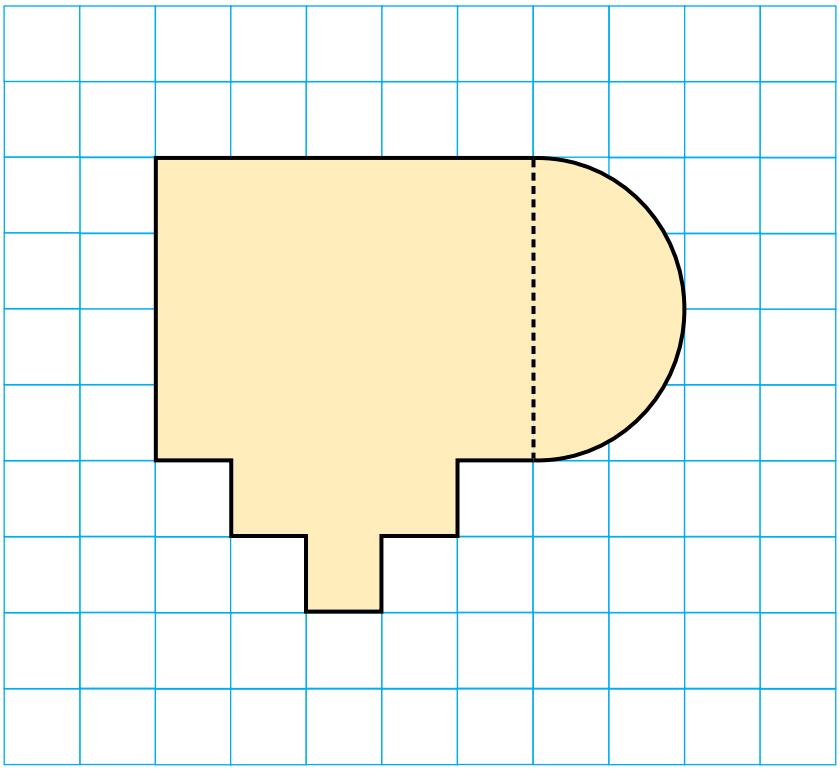
Input	Output
−2	14
0	10
2	4
3	6

☞ **D**

Input	Output
−2	6
0	10
2	14
3	16

9

Which is closest to the area of the figure shown?

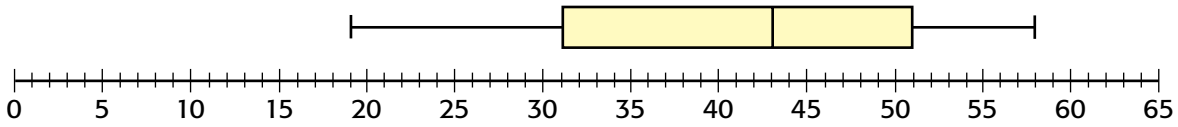


= 1 square unit

A 26.0 units^2
B 28.0 units^2
C 30.3 units^2
D 36.6 units^2

10

The ages, in years, of employees at a fabric store are represented by the box-and-whisker plot shown.



Which best represents the age range of the youngest 25% of employees?

☞ **A** 19–31
B 19–58
C 31–43
D 31–51

MATHEMATICS OPEN-RESPONSE ITEM A

A

The Pep Club wants to sell spirit bracelets as a fund-raiser. The equation $y = 2x - 30$ represents the profits earned, y, from selling spirit bracelets. The number of bracelets sold is represented by x.

1. In your answer document, copy and complete the function table below.

x	y
0	
10	
20	
30	
40	

2. On the grid in your answer document, graph the x- and y-values from the table above on a coordinate plane.

3. How many bracelets would need to be sold for the Pep Club to make a profit of $60? Show your work and/or explain your answer.

BE SURE TO LABEL YOUR RESPONSES 1, 2, AND 3.

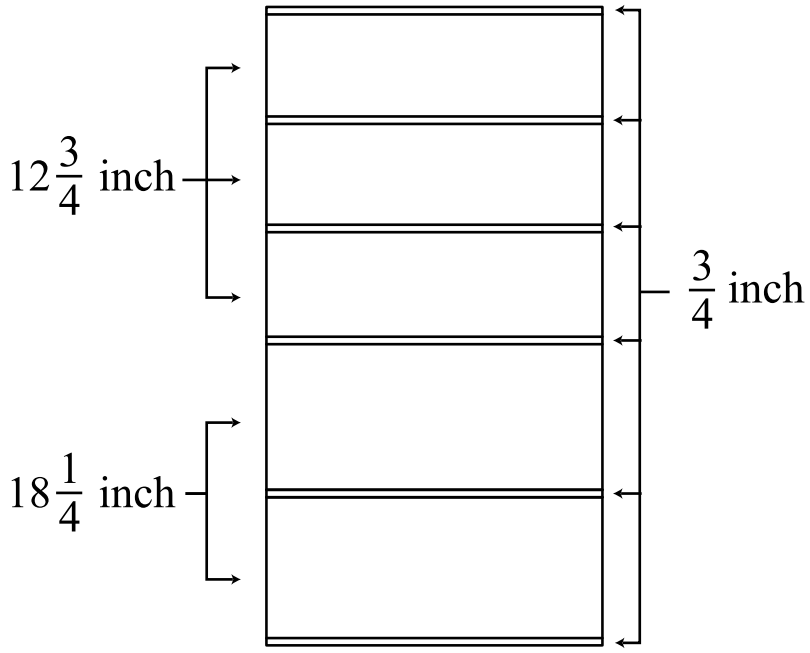
RUBRIC FOR MATHEMATICS OPEN-RESPONSE ITEM A

SCORE	DESCRIPTION
4	The student earns 4 points. The response contains no incorrect work.
3	The student earns 3–3 $\frac{1}{2}$ points.
2	The student earns 2–2 $\frac{1}{2}$ points.
1	The student earns $\frac{1}{2}$–1 $\frac{1}{2}$ points, or some minimal understanding shown.
0	The student earns 0 points. No understanding is shown.
B	Blank—No Response. A score of "B" will be reported as "NA." (No attempt to answer the item. Score of "0" assigned for the item.)

MATHEMATICS OPEN-RESPONSE ITEM B

B

Charlene is building a bookcase, as shown in the scale drawing below. The top three shelves within the bookcase each have $12\frac{3}{4}$ inches of space above them. The two lower shelves each have $18\frac{1}{4}$ inches of space above them. The thickness of the wood used for the shelves, including the one used for the top of the bookcase, is $\frac{3}{4}$ of an inch.



1. What is the total height of the bookcase, in inches? Write your answer as a decimal. Show all your work and/or explain your answer.
2. What percentage of the height of the bookcase is from the shelves? Round your answer to the nearest whole percent. Show your work and/or explain your answer.

BE SURE TO LABEL YOUR RESPONSES 1 AND 2.

PART III Item Correlation with Curriculum Frameworks— 2009 Augmented Benchmark Grade 7

Released Items for Mathematics*

Item	Strand	Content Standard	Student Learning Expectation
1	G	8	1
2	N	2	4
3	G	10	1
4	N	3	6
5	D	15	2
6	M	13	1
7	A	5	4
8	A	4	1
9	M	13	7
10	D	14	3
A	A	6	2
B	N	3	2

*Only the predominant Strand, Content Standard, and Student Learning Expectation is listed.

Non-Released Items for Mathematics*

Item	Strand	Content Standard	Student Learning Expectation
1	N	1	3
2	N	2	1
3	D	15	1
4	G	8	3
5	G	8	6
6	M	13	7
7	D	15	2
8	A	5	2
9	G	10	2
10	G	9	2
11	G	8	2
12	D	17	1
13	A	4	3
14	A	6	1
15	M	13	5
A	G	8	6
B	M	12	3
C	D	17	2