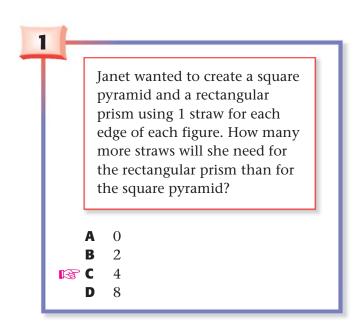
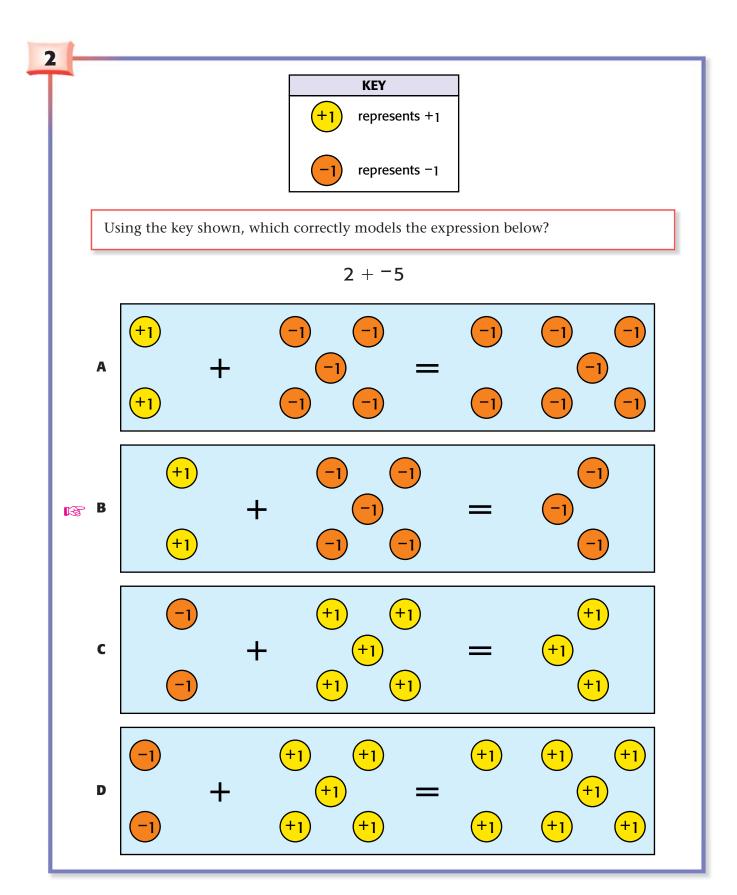
# PART II Released Mathematics Items-2009 Augmented Benchmark Grade 7

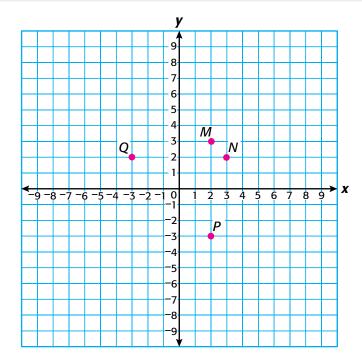
#### **CALCULATOR NOT PERMITTED—ITEMS 1–3**





3

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



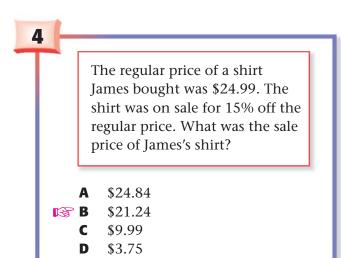
- M
- N
- C



 $\square$  D Q

## PART II Released Mathematics Items-2009 Augmented Benchmark Grade 7

#### CALCULATOR PERMITTED—ITEMS 4-10 and A-B



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

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

What is the value of the expression below when  $p = \frac{1}{8}$ ? 16p - 10A -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

В

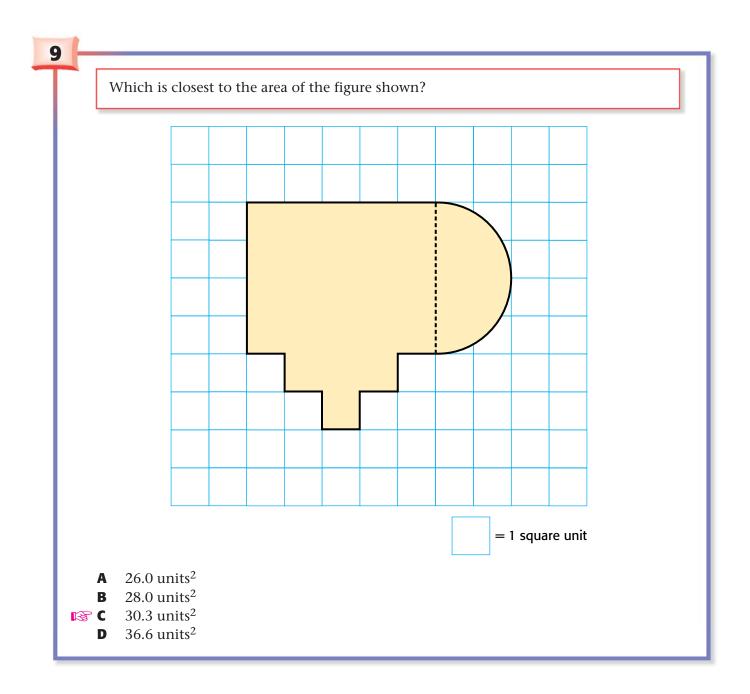
Input	Output	
-2	14	
0	0	
2	4	
3	6	

C

Input Output	
-2	14
0	10
2	4
3	6

**₽** D

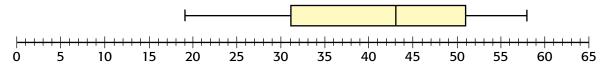
Input	Output	
-2	6	
0	10	
2	14	
3	16	



# PART II Released Mathematics Items-2009 Augmented Benchmark Grade 7

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

- **A** 19–31
- **B** 19–58
- **C** 31–43
- **D** 31–51

#### **MATHEMATICS OPEN-RESPONSE ITEM 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.

Х	у
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.

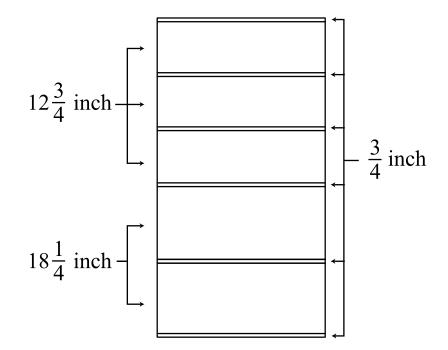
### **RUBRIC FOR MATHEMATICS OPEN-RESPONSE ITEM A**

SCORE	DESCRIPTION	
4	The student earns 4 points. The response contains no incorrect work.	
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.		
В	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	М	13	1
7	A	5	4
8	A	4	1
9	М	13	7
10	D	14	3
A	A	6	2
В	N	3	2

<sup>\*</sup>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
А	G	8	6
В	М	12	3
С	D	17	2