

Arkansas Comprehensive Testing, Assessment, and Accountability Program



Released Item Booklet

Arkansas Augmented Benchmark Examination

APRIL 2008 ADMINISTRATION

GRADE

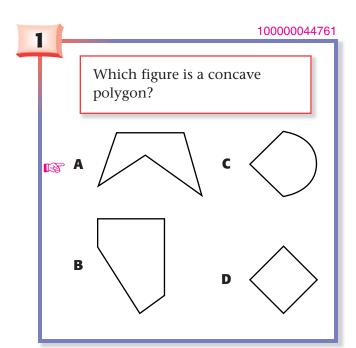
Arkansas Department of Education

Copyright © 2008 by Arkansas Department of Education. All rights reserved. Arkansas public schools may reproduce this document in full or in part for use with teachers, students, and parents. All other uses of this document are forbidden without written permission from the Arkansas Department of Education. All inquiries should be sent to Dr. Gayle Potter at the Arkansas Department of Education, 501-682-4558. The ACTAAP logo is a trademark of Arkansas Department of Education. Portions of this work were previously published. Printed in the United States of America.

ISBN 999-8712-56-4

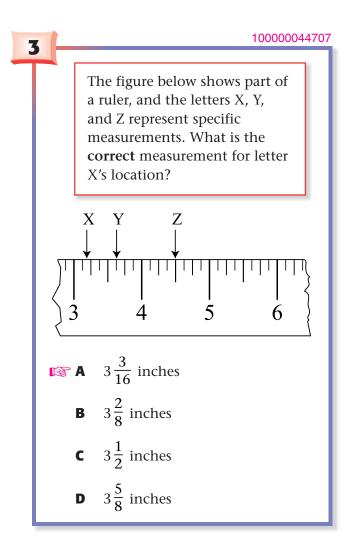
ISBN 9998712564

CALCULATOR NOT PERMITTED—ITEMS 1–3



This season, a baseball team increases ticket prices by 15% over the previous season's prices. How much will a ticket cost this season that had a price of \$24 the previous season?

- **A** \$24.36
- **B** \$26.40
- **C** \$27.60
 - **D** \$36.00



CALCULATOR PERMITTED—ITEMS 4–10 and 1–2

4

100000044733

What is the rule for finding the output in the table below?

Input (x)	Output (y)
5	14
6	17
7	20
8	23
9	26
10	29

- **A** add 3 to x
- **B** multiply x by 2, then add 4

® C

multiply x by 3, then subtract 1

multiply x by 4, then subtract 11

100000044726

Which function table represents y = 3x + 2?

X	y
-2	-4
0	5
3	11

B

X	y
-2	-4
0	2
3	11

В

X	y
-2	-8
0	2
3	11

D

X	у
-2	0
0	$-\frac{2}{3}$
3	$\frac{1}{3}$

100000044679

Jack's math test scores are listed below.

82 62 91 83 75 83

If Jack scores a 97 on his next math test, which statement would be true?

The mean and median would increase while the mode would remain the same.

- **B** The median would increase while the mean and mode would remain the same.
- **C** The mode would increase while the mean and median would stay the same.
- **D** The mode, median, and mean would all increase.

7

100000044722

A woodworking class spends \$5 for materials to make yo-yos. The class sells the yo-yos for \$2 each. The table below represents how much profit is made when *x* yo-yos are sold.

Number of Yo-Yos Sold (x)	Profit in Dollars (2x - 5)
1	-3
2	⁻ 1
4	3
8	у
16	27

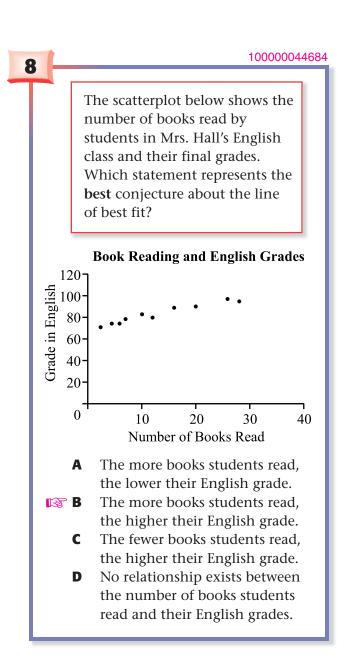
What is the value of *y* in the function table?

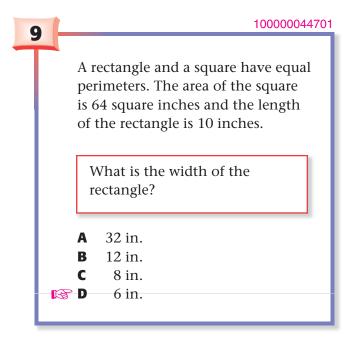
A 5

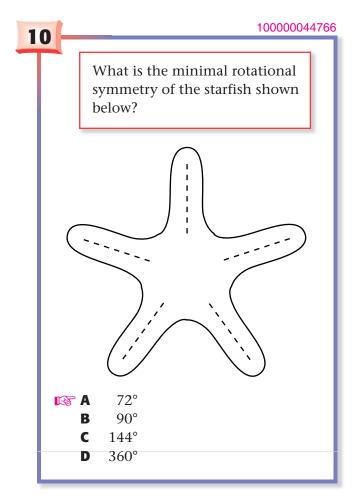
B 6

C 11

D 21







MATHEMATICS OPEN RESPONSE ITEM 1

1

100000044752

Melanie wants to plant a vegetable garden in two different garden plots, as shown in the figures below.

9 ft
A.
6 ft
3 ft

9 ft

6 ft

4 ft

- 1. Melanie needs 65 sq ft to plant corn in her garden. Which garden plot should Melanie choose to plant corn? Show all your work and/or explain your answer.
- 2. Melanie plans to fertilize both garden plots 2 times during the season. One bag of fertilizer will fertilize 135 sq ft. How many bags of fertilizer will Melanie need to buy? Show all your work and/or explain your answer.

BE SURE TO LABEL YOUR RESPONSES 1 AND 2.

3 ft

RUBRIC FOR MATHEMATICS OPEN RESPONSE ITEM 1

SCORE	DESCRIPTION
4	Response contains no incorrect work.
3	The student earns 3 points.
2	The student earns 2 points.
1	1 or some minimal understanding shown.
0	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 2

2

100000044712

The table below shows how many minutes were spent studying for a test and the scores received on the test by 6 students.

Minutes Spent Studying (x)	Score Received on Test (y)
45	99
25	94
22	82
18	75
15	71
10	65

- 1. What is the mean test score in the table above? Show all your work and/or explain your answer.
- 2. On the grid in your answer document, draw a scatterplot to display the data in the table above. Use all the correct graphing techniques.
- 3. Based on the scatterplot, write a sentence describing the relationship between the minutes spent studying and the scores received on the test.

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

RUBRIC FOR MATHEMATICS OPEN RESPONSE ITEM 2

SCORE	DESCRIPTION
4	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	$\frac{1}{2}$ -1 $\frac{1}{2}$ or some minimal understanding shown.
0	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.)