ACTAAP

Arkansas Comprehensive Testing, Assessment, and Accountability Program

Released Item Booklet

Arkansas Augmented Benchmark Examination

APRIL 2008 ADMINISTRATION

GRADE
6

Arkansas Department of Education
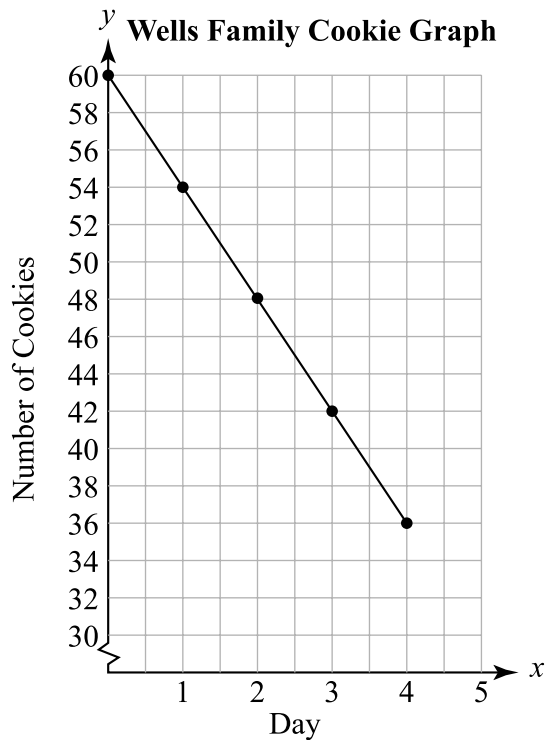
PART II   Released Mathematics Items—2008 Augmented Benchmark Grade 6

CALCULATOR NOT PERMITTED—ITEMS 1–3

1   100000044648

Each day, Mr. Wells records the number of cookies his family eats. The graph below shows how many cookies are left at the end of each day.

Wells Family Cookie Graph

If the pattern continues, how many cookies will be left on Day 5?

A   2

B   5

☞ **C**   30

D   34

2   100000044588

If it is 1:10 P.M., and Kiley has to leave for her dentist appointment in 25 minutes, what time does she have to leave?

A   12:45 P.M.

B   1:25 P.M.

☞ **C**   1:35 P.M.

D   2:35 P.M.

3   100000044615

Which number is divisible by 9?

☞ **A**   2,457

B   3,954

C   6,945

D   8,362

PART II   Released Mathematics Items—2008 Augmented Benchmark Grade 6

CALCULATOR PERMITTED—ITEMS 4–10 and 1–2

4   100000044644

Zoe recorded the number of pages she typed after each 30-minute period in the table shown below.

Zoe's Typing Record

Time	Number of Pages Typed
1:00 P.M.	0
1:30 P.M.	2
2:00 P.M.	4
2:30 P.M.	6

If Zoe continues typing at the same rate, how many pages will she type by 3:00 P.M.?

A   2
B   5
C   6
☞ **D**   8

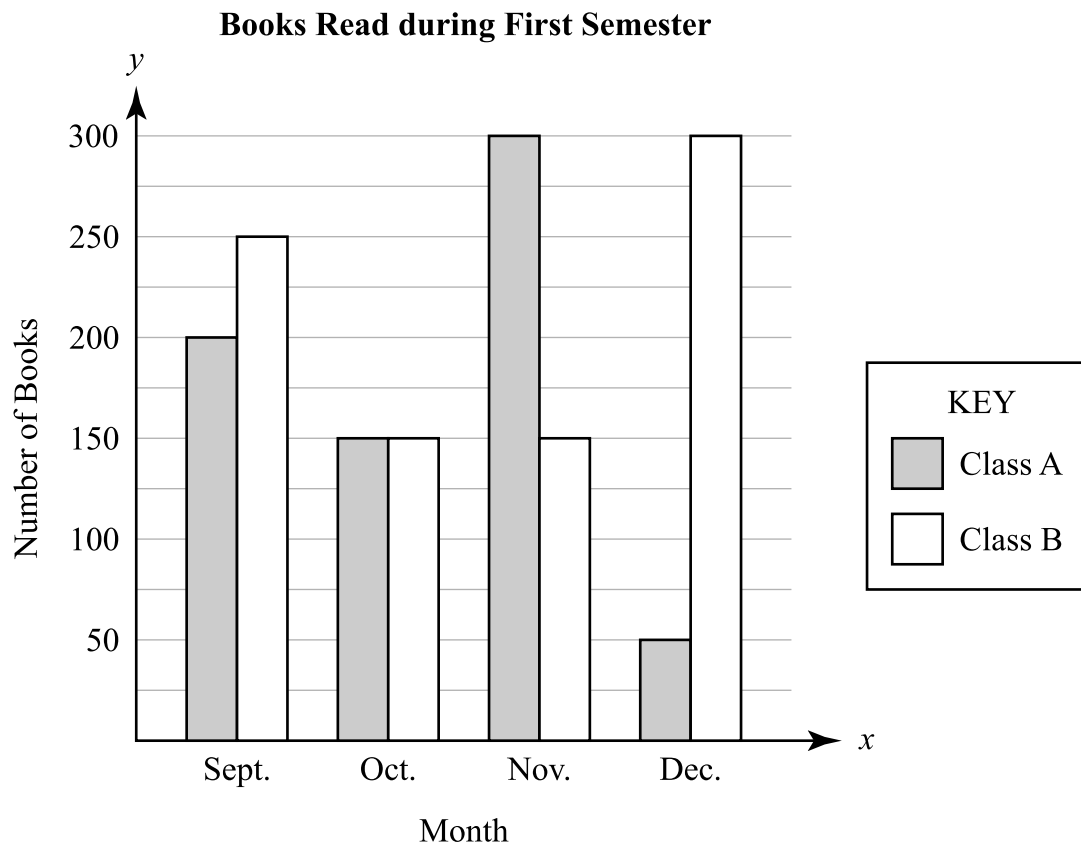**5**   100000044592

Which unit of measure would be **best** for measuring the amount of water needed to make a pitcher of lemonade?

☞ **A**   liter
B   meter
C   kilogram
D   millimeter

6

100000044671

Two sixth-grade classes made a double-bar graph to record the number of books that each class read during the first semester, as shown below.
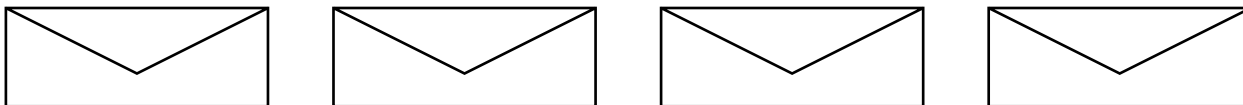
Books Read during First Semester

Which month shows the **greatest** difference in the number of books read by each class?

A   September

B   October

C   November

☞ **D**   December

PART II   Released Mathematics Items—2008 Augmented Benchmark Grade 6

7

100000044653

The 4 envelopes shown below contain a total of 48 number tiles.

To find the number of tiles in each envelope, Maria used the equation below.

$$4n = 48$$

What is the value of n?

☞ **A** $n = 12$

B $n = 44$

C $n = 112$

D $n = 156$

PART II   Released Mathematics Items—2008 Augmented Benchmark Grade 6
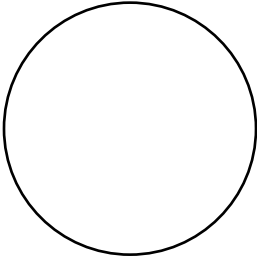
8 100000044635

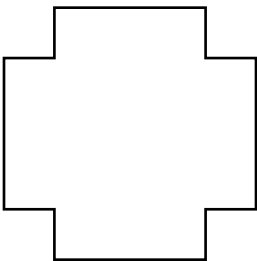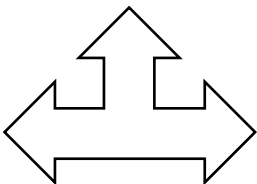Which figure has exactly one line of symmetry?

A

B

C

☞ D

9 100000044675

According to the table below, Maggie has a box of markers.

Maggie's Markers

Color	Number of Markers
black	3
red	2
blue	1
yellow	1
green	2

If Maggie takes a marker without looking, what is the theoretical probability that she will take a red marker?

A   1 out of 2

B   1 out of 9

C   2 out of 7

☞ D   2 out of 9

10

100000044610

Blaine asked the sixth-grade students if they preferred dogs or cats as pets. The table below shows the results of Blaine's survey.

Blaine's Survey

Pet	Number of Students
dog	28
cat	21

What is the ratio, in simplest form, of the number of students who preferred dogs to the number of students who preferred cats?

A   4 to 1

☞ **B**   4 to 3

C   7 to 3

D   7 to 4

PART II   Released Mathematics Items—2008 Augmented Benchmark Grade 6

MATHEMATICS OPEN RESPONSE ITEM 1

1

100000044640

Margo charges a constant rate per hour for her babysitting services.

1. Write an expression to show the amount of money Margo would charge for 6 hours of babysitting. Let n represent the amount per hour that Margo charges.

2. Margo does arts and crafts with the child while babysitting for an additional $15 fee. Write an expression to show how to find the cost of 6 hours of babysitting, including the $15 arts and crafts fee.

3. If Margo's fixed rate is $10 per hour, what would be the total cost for 6 hours of babysitting with arts and crafts activities? Show all your work and/or explain your answer.
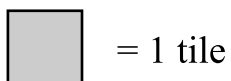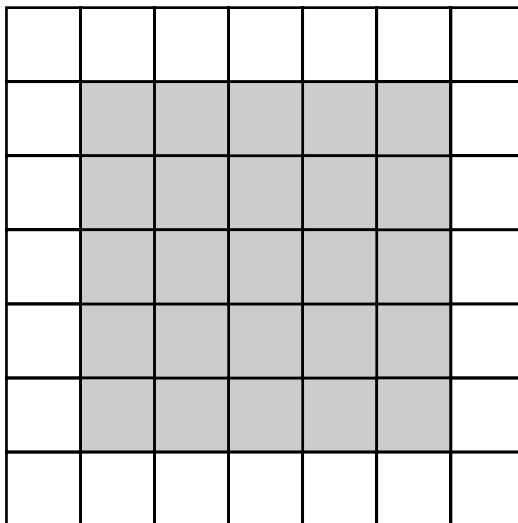
BE SURE TO LABEL YOUR RESPONSES 1, 2, AND 3.

RUBRIC FOR MATHEMATICS OPEN RESPONSE ITEM 1

SCORE	DESCRIPTION
4	Label of "$" is included in Part 3. Response contains no incorrect work.
3	The student earns $3\text{-}3\frac{1}{2}$ points.
2	The student earns $2\text{-}2\frac{1}{2}$ points.
1	$\frac{1}{2}\text{-}1\frac{1}{2}$ 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.)

PART II   Released Mathematics Items—2008 Augmented Benchmark Grade 6

MATHEMATICS OPEN RESPONSE ITEM 2

2

100000044643

The reading corner in Mr. Thomson's classroom is tiled with 1-foot-square carpet tiles, as shaded in the figure below.

= 1 tile

1. What are the area and perimeter of the tiled reading corner?

2. Mr. Thomson plans to increase the size of the reading corner by doubling all four sides. On the grid in your answer document, draw the new, larger reading corner.

3. How many more carpet tiles are needed for the new reading corner? Show all of your work and/or explain your answer.

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

RUBRIC FOR MATHEMATICS OPEN RESPONSE ITEM 2

SCORE	DESCRIPTION
4	Correct labels of "ft or units" for Perimeter; "sq. ft or sq. units" for area. 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.)

Page **24**