Introduction

INDIVIDUAL TESTS

The Standards Grades 3-4 MathBox contains pages of multiple-choice questions that correlate to one of the following NCTM Standards:

Standard 1	Mathematics as Problem Solving
Standard 2	Mathematics as Communication
Standard 3	Mathematics as Reasoning
Standard 4	Mathematical Connections
Standard 5	Estimation
Standard 6	Number Sense and Numeration
Standard 7	Concepts of Whole Number Operations
Standard 8	Whole Number Computation
Standard 9	Geometry and Spatial Sense
Standard 10	Measurement
Standard 11	Statistics and Probability
Standard 12	Fractions and Decimals
Standard 13	Patterns and Relationships

CUMULATIVE TESTS

The Standards Grades 3-4 MathBox includes four cumulative tests that are comprised of 13 questions, one from each standard. It is suggested that Cumulative Test 1 be used as a pretest since the questions are of the lowest level of difficulty. Cumulative Tests 2 and 3 can be used to assess students at a midpoint since the questions are of an average level of difficulty, and Cumulative Test 4 can be used as a post test since the questions are of the highest level of difficulty.

ANSWER KEY

An answer key provides solutions identified by a standard so that a teacher can determine where a student might need additional practice.

This MathBox can be used to:

- address the NCTM Standards
- review basic skills
- pinpoint areas of difficulty
- provide enrichment
- offer variety in homework or in-class assignments

Please note that several of the questions that address Standard 10 require the use of a metric ruler.

Other titles available in this series are:

Standards 5-6 MathBox
Standards 7-8 MathBox
Standards 9-12 MathBox

The questions in this MathBox are a subset of the questions that are available in the Standards Level 1 TestBank.

Name: _____ Date: _____ **Standard 1**

Circle the letter of the correct answer.

1 **ICE CREAM TRUCK PRICES**

	Price
Type	75¢
Chocolate Coated Ice Cream Bar	90¢
Ice Cream Sandwich	$1.00
Sundae in a Cup	85¢
Orange Sherbet Bar	65¢
Fruit Flavored Ices	

Sue Ellen plans to buy an ice cream sandwich and 2 fruit flavored ices. Use the chart to state the prices she should use.

A 75¢ and 85¢ **B** 90¢ and 85¢

C 65¢ and 90¢ **D** 75¢ and $1.00

2 Russ took pictures of 7 animals during his trip to the zoo. The 7 animals have a total of 22 legs. Which combination is possible?

A 4 monkeys, 2 tigers, 1 zebra

B 5 monkeys, 2 lions, 1 tiger

C 5 monkeys, 1 tiger, 1 polar bear, 1 lion

D 3 monkeys, 2 elephants, 2 zebras

3 Which number sentence correctly describes this model?

A $5 \times \Delta = 10$ **B** $2 \times \Delta = 4$

C $6 \times \Delta = 12$ **D** $4 \times \Delta = 8$

4 Which day shows the GREATEST number of cans collected by the 3rd and 4th graders?

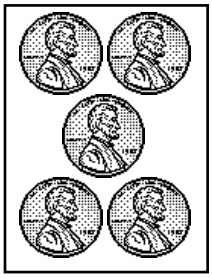
CAN CONTEST

Day	3rd	4th
Day 1	78	82
Day 2	83	80
Day 3	75	75
Day 4	67	62
Day 5	80	84

A Day 1 **B** Day 2

C Day 4 **D** Day 5

5 Which subtraction sentence shows how many more dimes than pennies?



A 8 – 5 = 3 **B** 13 – 5 = 8

C 13 – 8 = 5 **D** 8 – 3 = 5

6 Marc bought 3 different pairs of pants. He also bought a red shirt, a white shirt, and a yellow shirt. How many different outfits does Marc have? (Make a list to help solve this problem.)

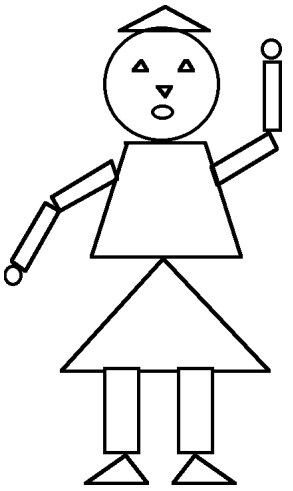
A 3 **B** 6

C 9 **D** 12

Name: _____ Date: _____ **Standard 9**

Circle the letter of the correct answer.

1 Which shape is NOT in the figure?

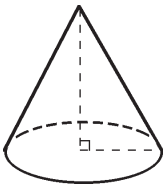


A rectangle **B** square

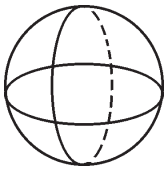
C circle **D** triangle

2 Which shape can you stack on top of itself?

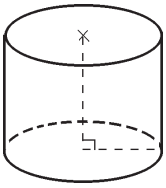
A



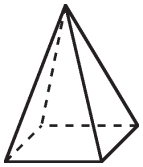
B



C



D

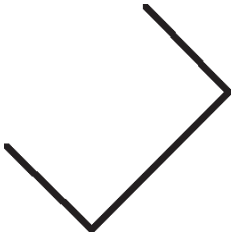


3 Which figure has ALL flat sides?

A cone **B** sphere

C cylinder **D** cube

4 Which segment completes this rectangle?



A

B

C

D

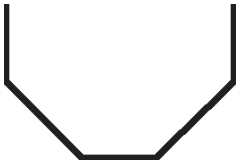
5

Which figure completes the drawing of the octagon above?

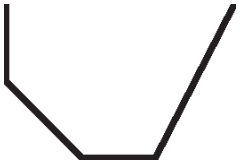
A

B

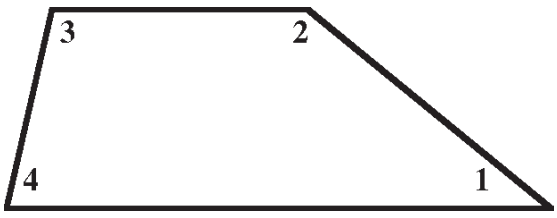
C



D



6 Which angle in this shape appears to be the smallest?



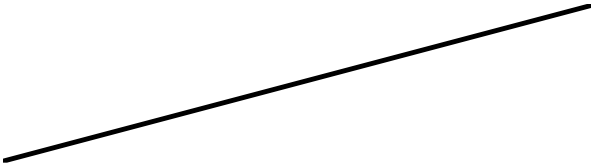
A angle 1 **B** angle 2

C angle 3 **D** angle 4

Name: _____ Date: _____ **Standard 10**

Circle the letter of the correct answer.

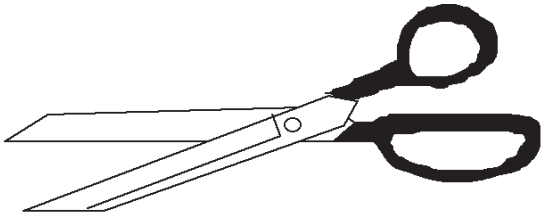
1 Measure this line segment.



A 6 cm **B** 7 cm

C 8 cm **D** 9 cm

2 What is the length of these scissors to the NEAREST centimeter?



A 5 cm **B** 6 cm

C 7 cm **D** 8 cm

3 Which object is 2 cm wide in real life?

A 

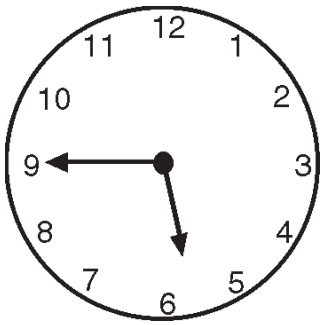
B 

C 

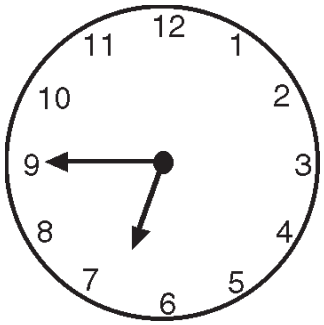
D 

4 Which clock shows 5:45?

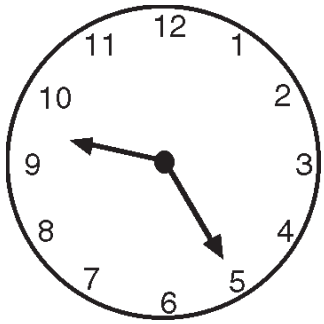
A



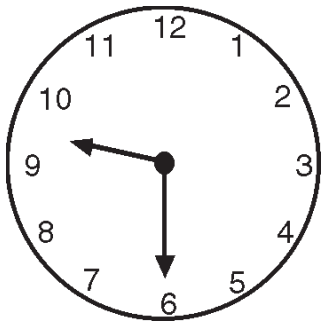
B



C



D



Name: _____ Date: _____ **Standard 13**

Circle the letter of the correct answer.

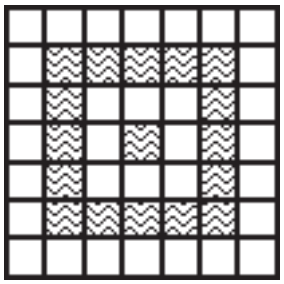
1 Identify the sentence that correctly completes the table.

10 × 10 = 100
9 × 9 = 81
8 × 8 = 64
□ × □ = __
6 × 6 = 36

A 3 × 3 = 9 **B** 5 × 5 = 25

C 7 × 7 = 49 **D** 9 × 9 = 81

2 Megan plans to continue this pattern by placing another row of the wavy pattern squares around the outside. How many more pattern squares will she need?



A 24 **B** 28

C 32 **D** 36

3 Choose the missing letters in the pattern.

AB EF IJ MN QR _____ YZ

A CD **B** GH

C KL **D** UV

4

Complete the pattern.

A  **B** 

C  **D** 

5 Which arrangement correctly completes the pattern?

A  **B** 

C  **D** 

6 What is the value of ○ in

○ × 3 = 3 + 3 + 3 + 3 ?

A 2 **B** 3

C 4 **D** 5

Name: _____ Date: _____

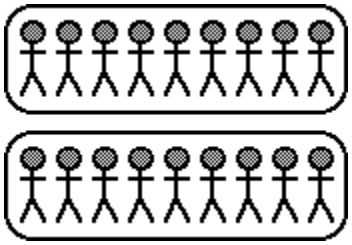
Circle the letter of the correct answer. **Cumulative Test 4**

3 Tyler has a striped shirt and a solid colored shirt. He has a pair of shorts and a pair of jeans. How many different outfits can he wear?

A 2 **B** 4

C 6 **D** 8

4 Choose the division fact shown by this model.



A 18 ÷ 1 = 18 **B** 18 ÷ 2 = 9

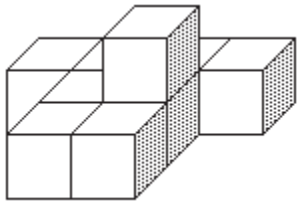
C 18 ÷ 3 = 6 **D** 18 ÷ 6 = 3

5 Mr. Shipelli has 3 sons. The sum of their ages is 15. They are not all the same age. The difference between any two of their ages is not the same. Which set represents their ages?

A {4, 5, 6} **B** {5, 5, 5}

C {1, 6, 8} **D** {3, 5, 7}

6 How many blocks are in this solid?

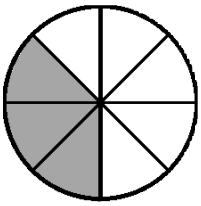


A 7 **B** 8

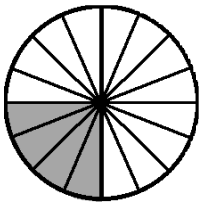
C 9 **D** 10

7 Which picture shows $\frac{1}{8} + \frac{1}{4}$?

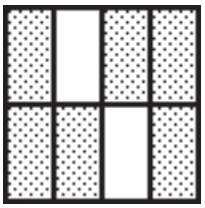
A



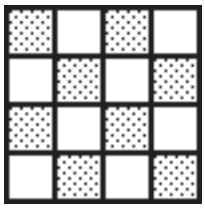
B



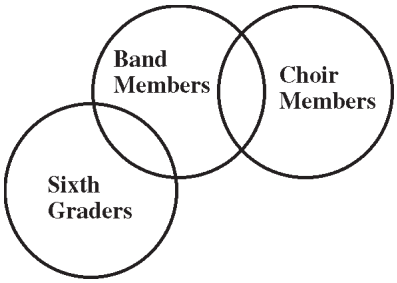
C



D



8 Use the diagram to find the TRUE statement.



A All band members are sixth graders.

B No choir members play in the band.

C Some choir members are sixth graders.

D No choir members are sixth graders.