

# STAR Test Sample Questions

## 3rd Grade Mathematics

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**More Questions**



# STAR Test Sample Questions

## 3rd Grade Mathematics

### **Number Sense - Place Value, Fractions, and Decimals**

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# Standardized Testing and Reporting - STAR

## Grade 3: Mathematics

### *Algebra and Functions (Performance Level: Advanced) – Question 01*

Mr. Guzman bought 48 doughnuts packed equally into 4 boxes.

Which number sentence shows how to find the number of doughnuts in each box?

A  $48 - 4 = \square$

B  $48 \div 4 = \square$

C  $48 + 4 = \square$

D  $48 \times 4 = \square$

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Proficient) – Question 01

If Mai bought apples for \$2.50 and she paid with a \$10 bill, **which expression shows the correct amount of change?**

A  $\$10 + \$2.50$

B  $\$10 - \$2.50$

C  $\$10 \times \$2.50$

D  $\$10 \div \$2.50$

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Proficient) – Question 02

The Sumata family took a five-day vacation by car. Each day they drove 250 miles.

Which number sentence could be used to find out how many total miles they drove?

A  $250 + 5 = \square$

B  $250 - 5 = \square$

C  $250 \times 5 = \square$

D  $250 \div 5 = \square$

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Proficient) – Question 03

What number makes this number sentence true?

$$3 + 5 = \square \times 2$$

A 3

B 4

C 5

D 6

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Proficient) – Question 04

Which of the following is used to find out how many inches are in 5 feet?

A  $5 \times 12$

B  $12 \div 5$

C  $5 + 12$

D  $12 - 5$

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Proficient) – Question 05

One stamp costs 34¢. Two stamps cost 68¢. Three stamps cost \$1.02.

**If the cost of each stamp remains the same, how much would 4 stamps cost?**

A \$1.26

B \$1.34

C \$1.36

D \$12.16



## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Proficient) – Question 06

The table shows the number of colored pencils needed for different numbers of students.

**Colored Pencils**

| Number of Students | Number of Pencils |
|--------------------|-------------------|
| 1                  | 4                 |
| 2                  | 8                 |
| 3                  | 12                |

If each student gets the same number of pencils, how many are needed for 6 students?

A 22

B 24

C 26

D 27

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Proficient) – Question 07

If bananas cost 35¢ per pound, **how much will 4 pounds cost?**

☐ A \$0.39

☐ B \$1.20

☐ C \$1.29

☐ D \$1.40

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Basic) – Question 01

Which sign goes in the box to make the number sentence true?

$$48 \square 6 = 8$$

A +

B -

C ×

D ÷

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Basic) – Question 02

If  $7 \times 11 \times 13 = 1001$ , then what is  $11 \times 7 \times 13$ ?

A 77

B 91

C 143

D 1001

## Grade 3: Mathematics

### Algebra and Functions (Performance Level: Below Basic) – Question 01

Look at the linear pattern below.

3, 6, 9, 12, 15, 18, \_\_\_\_

What number comes next in this pattern?

A 19

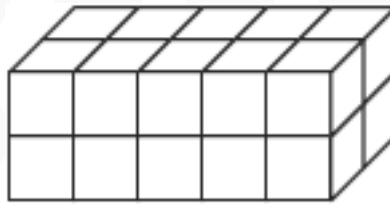
B 20

C 21

D 22

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Advanced) – Question 01



What is the volume of this solid figure made with cubes?

A 10 cubic units

B 17 cubic units

C 20 cubic units

D 22 cubic units

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Advanced) – Question 02

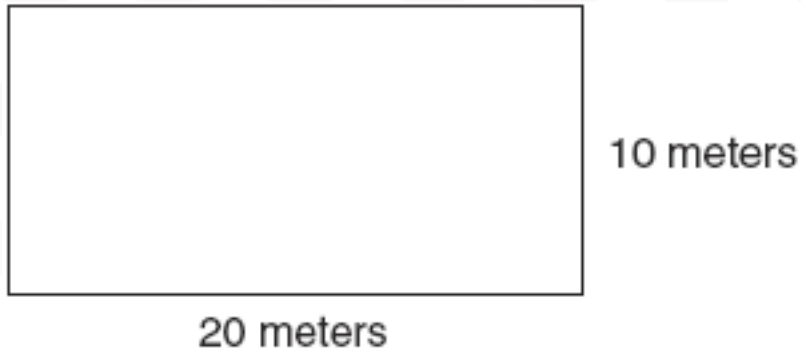
An isosceles triangle **MUST** have

- ☐ A 4 sides that are the same length.
- ☐ B 3 sides that are the same length.
- ☐ C 2 sides that are the same length.
- ☐ D no sides that are the same length.

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Proficient) – Question 01

A basketball court is shaped like a rectangle 20 meters long and 10 meters wide.



What is the perimeter in meters of the court?

- ☐ A 30 meters
- ☐ B 50 meters
- ☐ C 60 meters
- ☐ D 200 meters



## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Proficient) – Question 02

Which sign is shaped like a pentagon?



A



C



B



D

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Proficient) – Question 03

One side of a rectangle is 8 feet long. Another side of the rectangle is 10 feet long.

**What are the lengths of the other 2 sides of the rectangle?**

A They could be any length.

B 10 feet and 8 feet

C 10 feet and 10 feet

D 8 feet and 8 feet

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Proficient) – Question 04

How many right angles are in a rectangle?

A 1

B 2

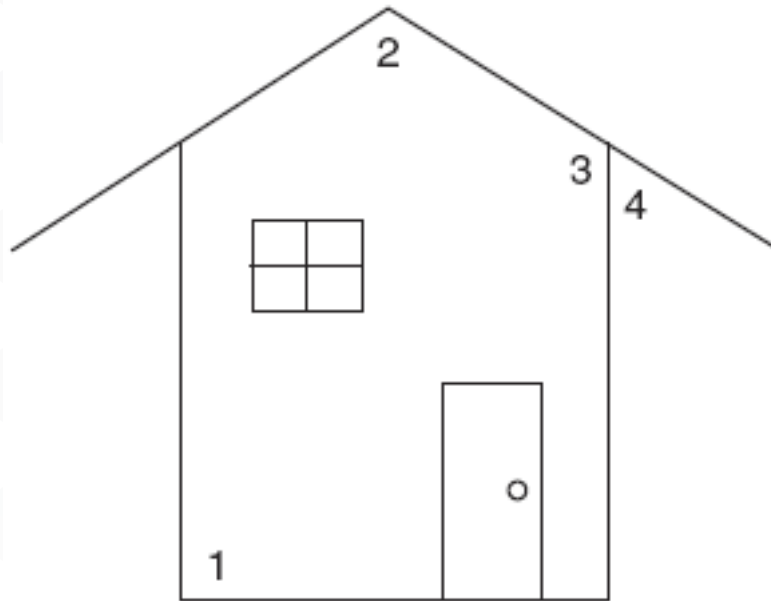
C 3

D 4

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Proficient) – Question 05

Look at the four angles marked on the picture of a house.



Which angle is a right angle?

A angle 1

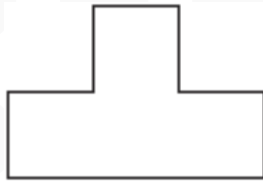
B angle 2

C angle 3

D angle 4

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Basic) – Question 01



= 1 square unit

What is the area of this figure?

A 2 square units

B 3 square units

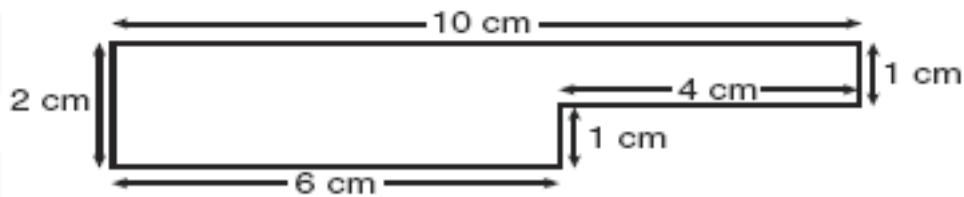
C 4 square units

D 6 square units

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Basic) – Question 02

Look at the polygon below.



1 centimeter = 1 cm

What is the perimeter of the polygon?

A 16 cm

B 20 cm

C 24 cm

D 28 cm

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Basic) – Question 03

There are 1,000 meters in 1 kilometer.

**How many meters are in 5 kilometers?**

A 1,000 meters

B 50 meters

C 200 meters

D 5,000 meters

## Grade 3: Mathematics

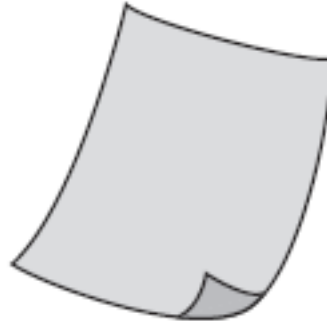
### Measurement and Geometry (Performance Level: Below Basic) – Question 01

Which of the following objects is heavier than 1 pound?



Pencil

A



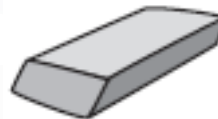
Paper

C



Backpack

B



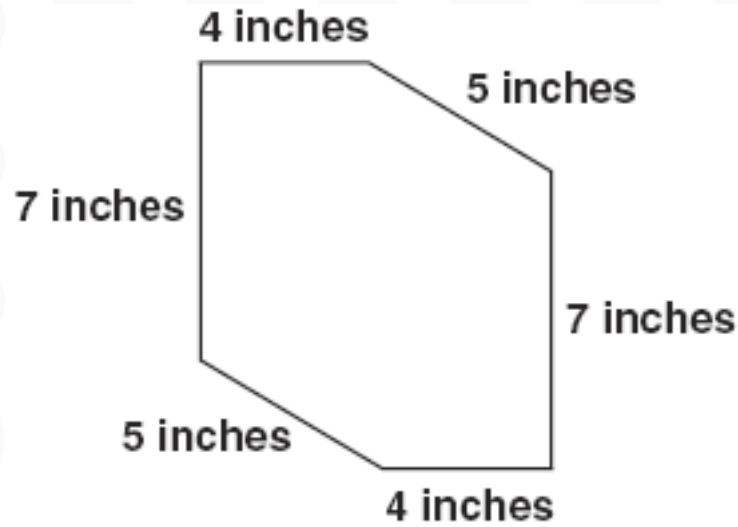
Eraser

D



## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Below Basic) – Question 02



What is the perimeter of the figure?

A 18 inches

B 22 inches

C 24 inches

D 32 inches

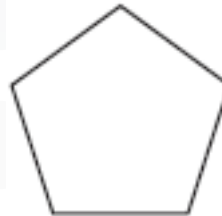
## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Below Basic) – Question 03

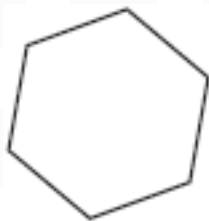
Which of these is a hexagon?



A



C



B

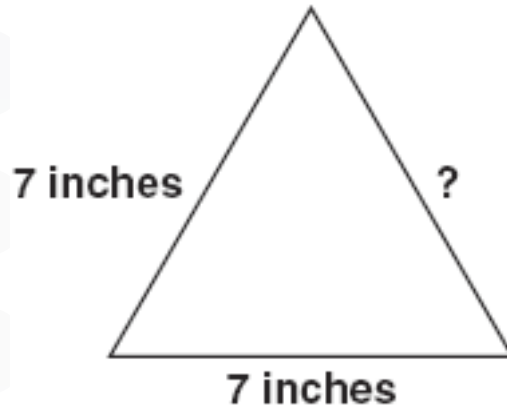


D

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Below Basic) – Question 04

What measurement is missing on the equilateral triangle below?



- ☐ A 1 inch
- ☐ B 7 inches
- ☐ C 14 inches
- ☐ D 49 inches

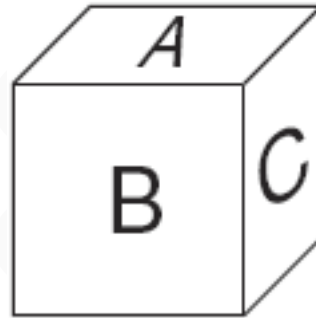
## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Below Basic) – Question 05

Which object is a cylinder?



A



C



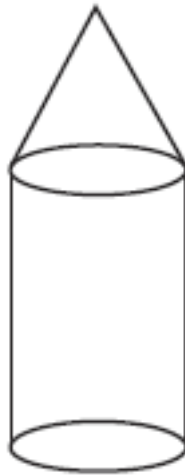
B



D

## Grade 3: Mathematics

### Measurement and Geometry (Performance Level: Below Basic) – Question 06



Which shapes make up this solid object?

☐ A cone and cylinder

☐ B circle and triangle

☐ C triangle and cylinder

☐ D rectangle, triangle, and circle

## Grade 3: Mathematics

*Number Sense - Addition, Subtraction, Multiplication, and Division (Performance Level: Advanced) – Question 01*

How much is nine times four hundred fifty-eight?

A 4042

B 4122

C 4311

D 4589

## Grade 3: Mathematics

### Number Sense - Addition, Subtraction, Multiplication, and Division (Performance Level: Advanced) – Question 02

During Field Day, 1 624 students from Glen Hill School were equally divided into 8 different events.

**How many students were in each event?**

A 203

B 206

C 221

D 224

## Grade 3: Mathematics

### Number Sense - Addition, Subtraction, Multiplication, and Division (Performance Level: Advanced) – Question 03

Mr. Brown bought 6 towels. All the towels were the same price. The total cost was \$84.

**How much money did each towel cost?**

A \$11

B \$14

C \$78

D \$504



## Grade 3: Mathematics

### Number Sense - Addition, Subtraction, Multiplication, and Division (Performance Level: Proficient) – Question 01

Third-grade students went to a concert in 8 buses. Each bus took 45 students.

**How many students went to the concert?**

A 320

B 360

C 380

D 3240

## Grade 3: Mathematics

*Number Sense - Addition, Subtraction, Multiplication, and Division (Performance Level: Proficient) – Question 02*

A company has 6 big trucks. Each truck has 18 wheels.

**How many wheels is this in all?**

A 24

B 96

C 108

D 116

## Grade 3: Mathematics

### Number Sense - Addition, Subtraction, Multiplication, and Division (Performance Level: Proficient) – Question 03

On Friday, 1250 people visited the zoo. Three times as many people visited on Saturday than on Friday.

**How many people visited the zoo on Saturday?**

A 3615

B 3650

C 3750

D 3753

## Grade 3: Mathematics

### Number Sense - Addition, Subtraction, Multiplication, and Division (Performance Level: Proficient) – Question 04

There are 124 students making 3 stars each for the school wall.

How many stars will they make all together?

A 127

B 357

C 362

D 372

## Grade 3: Mathematics

Number Sense - Addition, Subtraction, Multiplication, and Division (Performance Level: Below Basic) – Question 01

$$5768 \times \square = 5768$$

What number can be multiplied by 5768 to give the answer 5768?

A 0

B 1

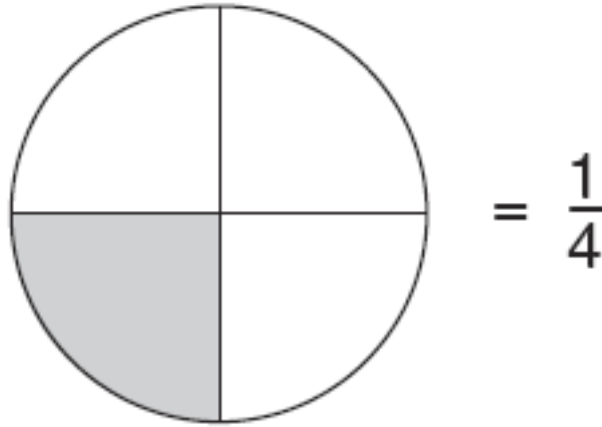
C 2

D 10

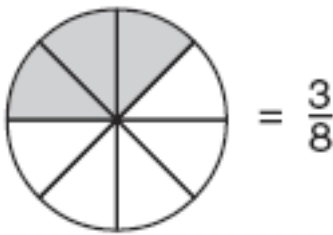
## Grade 3: Mathematics

### Number Sense - Place Value, Fractions, and Decimals (Performance Level: Advanced) – Question 01

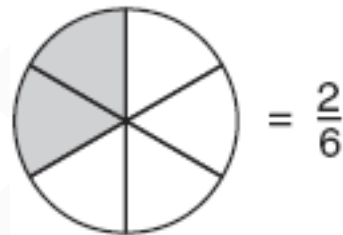
The circle shows  $\frac{1}{4}$  shaded.



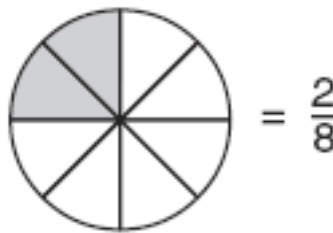
Which fractional part of a circle below is equal to



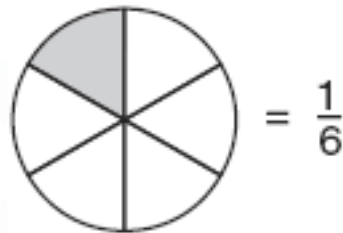
A



C



B



D

## Grade 3: Mathematics

Number Sense - Place Value, Fractions, and Decimals (Performance Level: Proficient) – Question 01

$$9000 - 3782 =$$

A 5218

B 5328

C 6782

D 12,782

## Grade 3: Mathematics

*Number Sense - Place Value, Fractions, and Decimals (Performance Level: Proficient) – Question 02*

Which number is 6 more than 1026?

A 1022

B 1032

C 1122

D 1132



## Grade 3: Mathematics

**Number Sense - Place Value, Fractions, and Decimals (Performance Level: Proficient) – Question 03**

A pie was divided into fifths. Emily ate  $\frac{1}{5}$  of the pie. Tony ate  $\frac{2}{5}$  of the pie. Jenny ate  $\frac{1}{5}$  of the pie.

**How much of the pie was left?**

A  $\frac{4}{5}$

B  $\frac{3}{5}$

C  $\frac{2}{5}$

D  $\frac{1}{5}$

## Grade 3: Mathematics

### Number Sense - Place Value, Fractions, and Decimals (Performance Level: Proficient) – Question 04

Reggie compared the prices of two radios. The table below shows the prices.

| Cost of Radios |         |
|----------------|---------|
| Brand          | Cost    |
| A              | \$31.47 |
| B              | \$34.71 |

How much more does Brand B cost than Brand A?

- ☐ A \$3.24
- ☐ B \$3.26
- ☐ C \$3.34
- ☐ D \$3.36

## Grade 3: Mathematics

*Number Sense - Place Value, Fractions, and Decimals (Performance Level: Basic)*

### *– Question 01*

How is eight thousand, seventy-six written in standard form?

A 8067

B 8076

C 8706

D 8760

## Grade 3: Mathematics

*Number Sense - Place Value, Fractions, and Decimals (Performance Level: Basic)*

### – Question 02

Which set of numbers is in order from greatest to least?

A 147, 163, 234, 275

B 275, 234, 163, 147

C 275, 163, 234, 147

D 163, 275, 234, 147

## Grade 3: Mathematics

*Number Sense - Place Value, Fractions, and Decimals (Performance Level: Basic)*

**– Question 03**

Which number has a 4 in the tens place and a 4 in the hundreds place?

A 6424

B 6244

C 4462

D 6442

## Grade 3: Mathematics

*Number Sense - Place Value, Fractions, and Decimals (Performance Level: Basic)*

**– Question 04**

Which digit is in the hundreds place in the number 3174?

A 1

B 3

C 4

D 7

## Grade 3: Mathematics

*Number Sense - Place Value, Fractions, and Decimals (Performance Level: Basic)*

### – Question 05

The town of Milburg has 5256 grown-ups and 2987 children.

**How many people live in Milburg?**

A 7133

B 8133

C 8243

D 8343

## Grade 3: Mathematics

*Number Sense - Place Value, Fractions, and Decimals (Performance Level: Basic)*

### – Question 06

Lily did this division problem.

$$375 \div 25 = 15$$

Which problem could she do to check her answer?

A  $25 + 15 = \square$

B  $25 - 15 = \square$

C  $25 \times 15 = \square$

D  $25 \div 15 = \square$



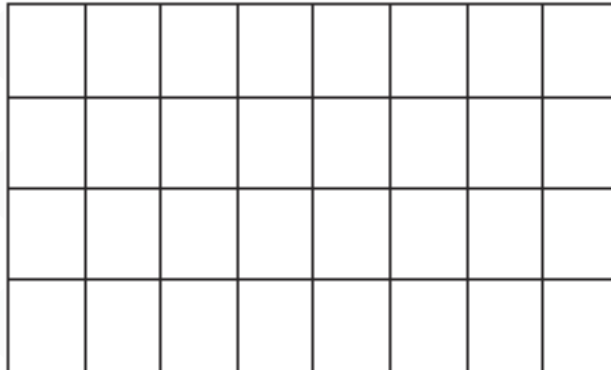
## Grade 3: Mathematics

Number Sense - Place Value, Fractions, and Decimals (Performance Level: Basic)

### – Question 07

The figure below is a model for the multiplication sentence.

$$8 \times 4 = 32$$



Which division sentence is modeled by the same figure?

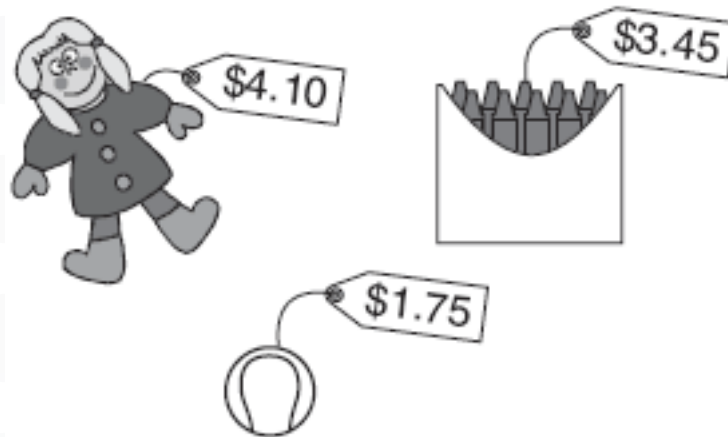
- A  $8 \div 4 = 2$
- B  $12 \div 4 = 3$
- C  $24 \div 8 = 3$
- D  $32 \div 8 = 4$

## Grade 3: Mathematics

Number Sense - Place Value, Fractions, and Decimals (Performance Level: Basic)

### – Question 08

Carmen bought these three things.



What was the total cost of these three items?

- ☐ A \$9.30
- ☐ B \$9.20
- ☐ C \$8.30
- ☐ D \$8.20

## Grade 3: Mathematics

*Number Sense - Place Value, Fractions, and Decimals (Performance Level: Below Basic) – Question 01*

What does the 3 represent in the number below?

3051

☐ A 3

☐ B 30

☐ C 300

☐ D 3000

## Grade 3: Mathematics

### Number Sense - Place Value, Fractions, and Decimals (Performance Level: Below Basic) – Question 02

Sophie has 527 seashells in her collection.

Which of these equals 527?

A  $5 + 2 + 7$

B  $5 + 20 + 700$

C  $500 + 20 + 7$

D  $500 + 200 + 70$

## Grade 3: Mathematics

Number Sense - Place Value, Fractions, and Decimals (Performance Level: Below Basic) – Question 03

$$\frac{1}{4} + \frac{2}{4} =$$

A  $\frac{6}{6}$

B  $\frac{2}{6}$

C  $\frac{2}{3}$

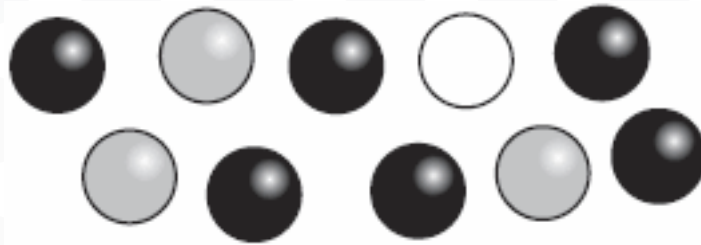
D  $\frac{3}{4}$

## Grade 3: Mathematics

### Statistics, Data Analysis, and Probability (Performance Level: Advanced) –

#### Question 01

Miriam put 10 marbles in a paper sack. Six of the marbles were black, three were gray, and one was white. Miriam closed her eyes and took one marble out of the sack.



Is it certain, likely, unlikely, or impossible that the marble she picked was white?

A certain

B likely




C unlikely

D impossible

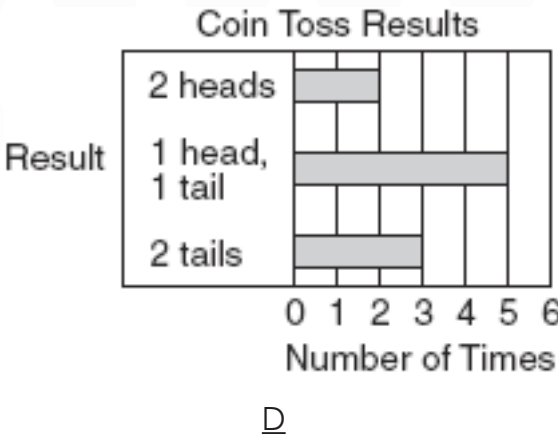
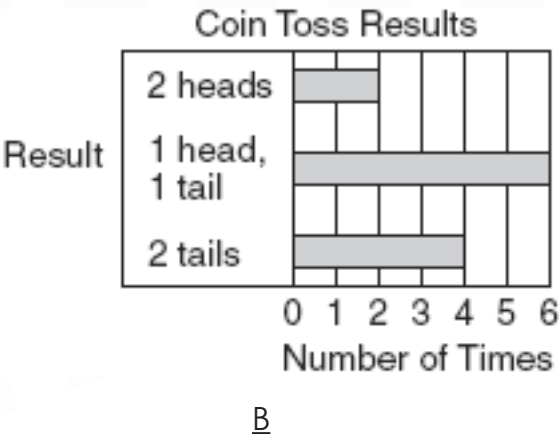
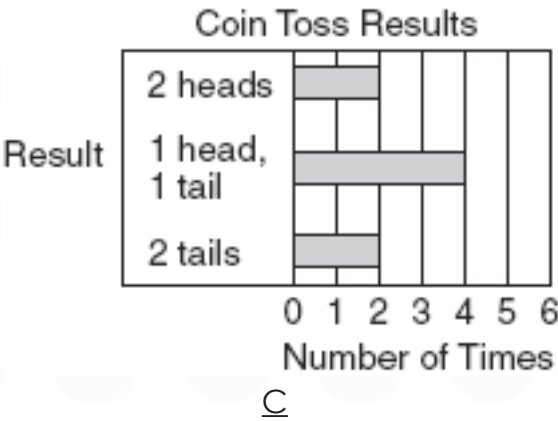
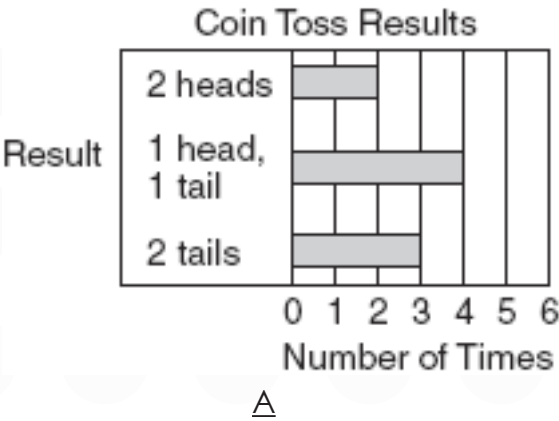
# Grade 3: Mathematics

## Statistics, Data Analysis, and Probability (Performance Level: Basic) – Question 01

Danny tossed 2 nickels 10 times. The results are shown in the tally chart below.

|   |     |
|---|-----|
|  | //  |
|  | /// |
|  | /// |

Which graph shows these results?



## Grade 3: Mathematics

### Statistics, Data Analysis, and Probability (Performance Level: Below Basic) – Question 01

A spinner landed on “Red” 6 times, “Blue” 4 times, and “Green” 5 times.

Which tally chart shows these results?

| Spin Results |  |
|--------------|--|
| Red          |  |
| Blue         |  |
| Green        |  |

A

| Spin Results |  |
|--------------|--|
| Red          |  |
| Blue         |  |
| Green        |  |

C

| Spin Results |  |
|--------------|--|
| Red          |  |
| Blue         |  |
| Green        |  |

B

| Spin Results |  |
|--------------|--|
| Red          |  |
| Blue         |  |
| Green        |  |

D



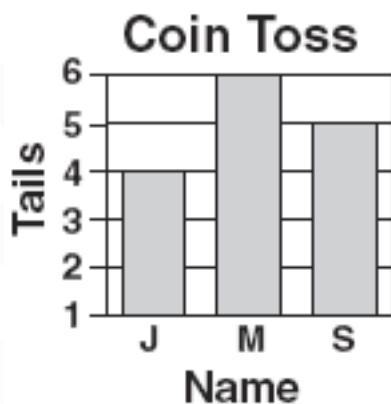
## Grade 3: Mathematics

### Statistics, Data Analysis, and Probability (Performance Level: Below Basic) – Question 02

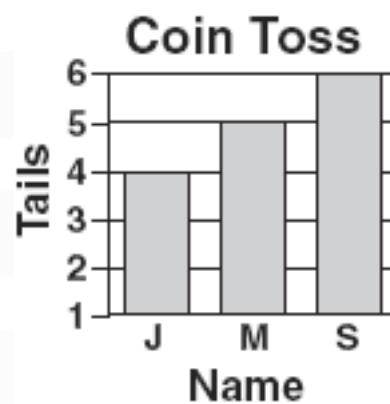
Josie, Mary, and Susana were tossing a coin to see how many times it would land on tails. They each tossed the coin 10 times and recorded their results with tally marks.

| Coin Toss |       |
|-----------|-------|
| Name      | Tails |
| Josie     |       |
| Mary      |       |
| Susana    |       |

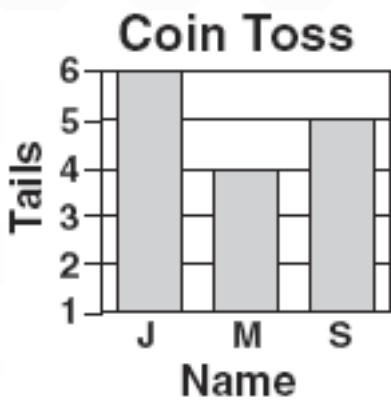
Which graph shows their results?



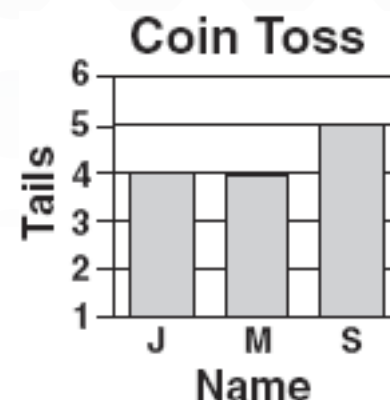
A



C



B



D