

**Teacher's Guide for  
MindJogger  
Videoquizzes**

Glencoe

**Mathematics**  
**Applications and Concepts**

**Course 3**

**Includes:**

- **MindJogger Videoquiz User Guide**
- **Teaching Strategies for Videoquizzes**
- **Questions and Answers**
- **Scoring Sheet**

**GLENCoe**

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## TO THE TEACHER

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The *Mathematics: Applications and Concepts Course 3 MindJogger Videoquizzes* package contains three videotapes, a Teacher Guide, and answer cards. There is a videoquiz for each of the 12 chapters of *Mathematics: Applications and Concepts Course 3*. Included in the Teacher Guide are teaching strategies, a chapter correlation, a user guide, a copy of all the questions and answers in the *MindJogger Videoquizzes*, and a scoring sheet.

*MindJogger Videoquizzes* are designed to enhance student learning within the classroom. The convenience of this medium allows for individual and group learning.

## TEACHING STRATEGIES

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*Mathematics: Applications and Concepts Course 3 MindJogger Videoquizzes* can be used for reviewing chapter content material in preparation for chapter testing. Set in a game show context, these quizzes combine oral questioning, written questions that appear on the screen, and engaging visuals. By incorporating these modes of communication, the shows are especially helpful for aural and visual learners.

In addition to testing the acquisition of mathematics concepts, skills, and problem solving within the classroom setting, *MindJogger Videoquizzes* can serve other functions. For students who have been absent, the videoquizzes can be used for review of missed material. They may also be used as additional reinforcement of the major concepts and skills and can be an effective and enjoyable tool when preparing for semester and final exams.

## CHAPTER CORRELATION

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*MindJogger Videoquizzes* cover concepts in each chapter of *Mathematics: Applications and Concepts Course 3*.

- |                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| <b>Videoquiz 1</b>  | Use after Chapter 1:<br><b>Algebra: Integers</b>                                     |
| <b>Videoquiz 2</b>  | Use after Chapter 2:<br><b>Algebra: Rational Numbers</b>                             |
| <b>Videoquiz 3</b>  | Use after Chapter 3:<br><b>Algebra: Real Numbers and the<br/>Pythagorean Theorem</b> |
| <b>Videoquiz 4</b>  | Use after Chapter 4:<br><b>Proportions, Algebra, and<br/>Geometry</b>                |
| <b>Videoquiz 5</b>  | Use after Chapter 5:<br><b>Percent</b>                                               |
| <b>Videoquiz 6</b>  | Use after Chapter 6:<br><b>Geometry</b>                                              |
| <b>Videoquiz 7</b>  | Use after Chapter 7:<br><b>Geometry: Measuring Area<br/>and Volume</b>               |
| <b>Videoquiz 8</b>  | Use after Chapter 8:<br><b>Probability</b>                                           |
| <b>Videoquiz 9</b>  | Use after Chapter 9:<br><b>Statistics and Matrices</b>                               |
| <b>Videoquiz 10</b> | Use after Chapter 10:<br><b>Algebra: More Equations and<br/>Inequalities</b>         |
| <b>Videoquiz 11</b> | Use after Chapter 11:<br><b>Algebra: Linear Functions</b>                            |
| <b>Videoquiz 12</b> | Use after Chapter 12:<br><b>Algebra: Nonlinear Functions<br/>and Polynomials</b>     |

## USER GUIDE

*MindJogger Videoquizzes* are presented in a game show format. Separate the students into cooperative groups or teams. Each team should be supplied with a set of answer cards and a copy of the scoring sheet. Have each team sit together and face the video screen. Each team should select its own scorekeeper or you may wish to select a scorekeeper for the entire classroom.

There are three rounds to each videoquiz, with each round a little more difficult than the previous one. During each round, a question is asked and a time limit set in which to answer each question. Pencil, paper, and calculator may be needed for some of the questions.

**Round One** covers mathematical concepts from the chapter. For this round, each team has 10 seconds in which to decide on an answer to each of five questions.

**Round Two** reviews mathematical skills in the chapter. In this round, each team has 15 seconds to answer each of four questions.

**Round Three** tests problem-solving abilities and critical-thinking skills. In this round, each team has 20 seconds to decide on an answer to each of four questions.

After each question is asked, a time thermometer will appear on the right side of the videoscreen, indicating the amount of time left to answer the question. If more time is needed at any point during the videoquizzes, simply pause the tape. At the end of each round, time is allotted for each team to total its score. A final score is totaled at the end of Round Three, indicating a winner for that particular segment of *MindJogger Videoquizzes*.

## ANSWER CARDS

Each team should be supplied with four answer cards labeled, A, B, C, and D. These cards are included in the *MindJogger Videoquizzes* package.

## SCORING SHEET

Each team should be supplied with a copy of the scoring sheet. The scoring sheet is included on the last page of this booklet.

## MINDJOGGER VIDEOQUIZ 1

### CHAPTER 1 • Algebra: Integers

#### Round 1

##### Question 1

Which set of integers is ordered from greatest to least?

- A.  $-9, -5, 0, 2, 6$
- B.  $-5, 2, 0, 6, -9$
- C.  $0, 2, -5, 6, -9$
- D.  $6, 2, 0, -5, -9$

The answer is D.

##### Question 2

On the number line, what is the coordinate of point  $Q$ ?

- A. 7
- B.  $-3$
- C.  $-4$
- D.  $-5$

The answer is B.

##### Question 3

Which expression is equivalent to  $-12 - (-5)$ ?

- A.  $-12 - 5$
- B.  $12 + (-5)$
- C.  $-12 + (-5)$
- D.  $-12 + 5$

The answer is D.

##### Question 4

Which phrase represents the algebraic expression  $4x + 12$ ?

- A. 12 plus the quotient of 4 and a number
- B. 4 more than the sum of  $x$  and 12
- C. the product of 4 and  $x$  decreased by 12
- D. 12 more than 4 times a number

The answer is D.

##### Question 5

Keisha bought 5 gourmet cookies for \$8. She used the equation  $5c = 8$  to find the cost of each cookie,  $c$ . Which equation is equivalent to  $5c = 8$ ?

- A.  $c = \frac{8}{5}$
- B.  $c = 8 - 5$
- C.  $c = (8)(5)$
- D.  $c = \frac{5}{8}$

The answer is A.

# MINDJOGGER VIDEOQUIZ 1

CHAPTER 1 • Algebra: Integers (con't)

## Round 2

### Question 1

Evaluate  $4a - 2b + c$  if  $a = 7$ ,  $b = 3$ , and  $c = 2$ .

- A. 16
- B. 22
- C. 24
- D. 28

The answer is C.

### Question 2

What is the value of  $16 + (-5)$ ?

- A. -21
- B. -11
- C. 11
- D. 21

The answer is C.

### Question 3

Evaluate  $-2(5)(-3)$ .

- A. 30
- B. -6
- C. -10
- D. -30

The answer is A.

### Question 4

If  $c - 12 = -9$ , what is the value of  $c$ ?

- A. -21
- B. -9
- C. -3
- D. 3

The answer is D.

## Round 3

### Question 1

Hector spent \$31.89 at the grocery store. If he gives the cashier a \$50 bill, how much change should he receive?

- A. \$19.89
- B. \$18.11
- C. \$21.11
- D. \$29.21

The answer is B.

### Question 2

What is the sum of the miniature golf scores listed in the table?

Player	Score
Bryan	7
Amelia	-2
Justin	5
Melissa	9
Takeo	-4

- A. 21
- B. -8
- C. 15
- D. -6

The answer is C.

# MINDJOGGER VIDEOQUIZ 1

CHAPTER 1 • Algebra: Integers (con't)

## Question 3

A football team loses 12 yards on 3 plays. What was the average yardage per play?

- A. -36 yd
- B. -15 yd
- C. -9 yd
- D. -4 yd

The answer is D.

## Question 4

A meteorologist reported that, during the night, the temperature dropped  $5^{\circ}\text{F}$  every hour. At 12 A.M., the temperature was  $0^{\circ}\text{F}$ . Find the temperature at 3 A.M.

- A.  $-15^{\circ}\text{F}$
- B.  $-10^{\circ}\text{F}$
- C.  $5^{\circ}\text{F}$
- D.  $10^{\circ}\text{F}$

The answer is A.

## MINDJOGGER VIDEOQUIZ 2

### CHAPTER 2 • Algebra: Rational Numbers

#### Round 1

##### Question 1

Which expression can be used to find the product

$$\frac{2}{3} \cdot \frac{3}{5}?$$

A.  $\frac{2 \cdot 3}{3 \cdot 5}$

B.  $\frac{2 \cdot 5}{3 \cdot 3}$

C.  $\frac{2+3}{3 \cdot 5}$

D.  $\frac{2 \cdot 3}{5}$

The answer is A.

##### Question 2

Name the multiplicative inverse of  $2\frac{2}{7}$ .

A.  $2\frac{7}{2}$

B.  $\frac{7}{16}$

C.  $2\frac{7}{11}$

D.  $\frac{16}{7}$

The answer is B.

##### Question 3

Which multiplication expression can be used to find  $\frac{3}{4} + \frac{2}{5}$ ?

A.  $\frac{3}{4} \times \frac{5}{2}$

B.  $\frac{4}{3} \times \frac{5}{2}$

C.  $\frac{2}{5} \times \frac{3}{4}$

D.  $\frac{2}{5} \times \frac{4}{3}$

The answer is A.

##### Question 4

Which expression is equivalent to  $2 \cdot 2 \cdot 4 \cdot 4 \cdot 6 \cdot 6 \cdot 6 \cdot 6$ ?

A.  $2^2 \cdot 4 \cdot 6^3$

B.  $2^2 \cdot 2^4 \cdot 3^6$

C.  $2^2 \cdot 4^2 \cdot 6^3$

D.  $2^2 \cdot 4^2 \cdot 6^2$

The answer is C.

##### Question 5

Jupiter is about 483,000,000 miles from the Sun. How is 483,000,000 written in scientific notation?

A.  $4.83 \times 10^{-7}$

B.  $4.83 \times 10^{-8}$

C.  $4.83 \times 10^7$

D.  $4.83 \times 10^8$

The answer is D.

## MINDJOGGER VIDEOQUIZ 2

### CHAPTER 2 • Algebra: Rational Numbers (con't)

#### Round 2

##### Question 1

Which fraction is equivalent to 0.04?

A.  $\frac{3}{8}$

B.  $\frac{1}{25}$

C.  $\frac{2}{5}$

D.  $\frac{1}{16}$

The answer is B.

##### Question 2

Which list orders  $\frac{4}{9}$ , 0.46,  $\frac{2}{5}$ , and 0.451 from greatest to least?

A.  $\frac{2}{5}$ ,  $\frac{4}{9}$ , 0.451, 0.46

B.  $\frac{4}{9}$ , 0.46, 0.451,  $\frac{2}{5}$

C. 0.451, 0.46,  $\frac{4}{9}$ ,  $\frac{2}{5}$

D. 0.46, 0.451,  $\frac{4}{9}$ ,  $\frac{2}{5}$

The answer is D.

##### Question 3

What is the sum of  $\frac{7}{12}$  and  $-\frac{3}{12}$ ?

A.  $\frac{1}{2}$

B.  $\frac{5}{6}$

C.  $\frac{1}{3}$

D.  $\frac{3}{4}$

The answer is C.

##### Question 4

What is the solution of  $-\frac{3}{4}x = \frac{5}{6}$ ?

A.  $\frac{1}{12}$

B.  $-1\frac{1}{9}$

C.  $1\frac{7}{12}$

D.  $-\frac{5}{8}$

The answer is B.

## MINDJOGGER VIDEOQUIZ 2

### CHAPTER 2 • Algebra: Rational Numbers (con't)

#### Round 3

##### Question 1

Diego's score on a Science test was 30 out of 35. Find his Science score as a decimal to the nearest hundredth.

- A. 0.33
- B. 0.857
- C. 0.86
- D. 1.17

The answer is C.

##### Question 2

Lindsey's recipe for pumpkin bars calls for  $2\frac{1}{4}$  cups of flour. She is going to make a double recipe. How much flour does she need?

- A.  $4\frac{1}{8}$  c
- B.  $4\frac{1}{2}$  c
- C.  $4\frac{3}{4}$  c
- D.  $5\frac{1}{3}$  c

The answer is B.

##### Question 3

Derrick purchased  $\frac{3}{4}$  of a pound of licorice candy,  $\frac{3}{8}$  of a pound of gumdrops, and  $\frac{1}{2}$  of a pound of chocolate-covered pretzels. How much candy did he buy?

- A.  $1\frac{3}{4}$  lb
- B.  $1\frac{5}{8}$  lb
- C.  $1\frac{1}{4}$  lb
- D.  $1\frac{1}{2}$  lb

The answer is B.

##### Question 4

The Ski Club sells granola bars for a profit of \$0.75 each. How many bars must be sold to earn \$300?

- A. 225
- B. 300
- C. 375
- D. 400

The answer is D.

## MINDJOGGER VIDEOQUIZ 3

### CHAPTER 3 • Real Numbers and the Pythagorean Theorem

#### Round 1

##### Question 1

What is the value of  $\sqrt{169}$ ?

- A. 12
- B. 13
- C. 14
- D. 15

The answer is B.

##### Question 2

What two whole numbers is  $\sqrt{31}$  between?

- A. 3 and 4
- B. 5 and 6
- C. 15 and 16
- D. 25 and 36

The answer is B.

##### Question 3

Which number is an irrational number?

- A.  $-\sqrt{9}$
- B. 0.3333...
- C.  $\sqrt{7}$
- D. 3.14

The answer is C.

##### Question 4

Which equation gives the Pythagorean Theorem for the triangle shown?

- A.  $z^2 = x^2 + y^2$
- B.  $x^2 = z^2 + y^2$
- C.  $z^2 = x^2 \cdot y^2$
- D.  $y^2 = x^2 + z^2$

The answer is A.

##### Question 5

Which equation can be used to find the distance  $c$  between points  $A(-1, 1)$  and  $B(3, 4)$ ?

- A.  $c^2 = 2^2 + 5^2$
- B.  $c^2 = 3^2 + (-1)^2$
- C.  $c^2 = 4^2 + 1^2$
- D.  $c^2 = 3^2 + 4^2$

The answer is D.

#### Round 2

##### Question 1

Estimate  $\sqrt{115}$  to the nearest whole number.

- A. 10
- B. 11
- C. 12
- D. 13

The answer is B.

## MINDJOGGER VIDEOQUIZ 3

### CHAPTER 3 • Real Numbers and the Pythagorean Theorem (con't)

#### Question 2

What is the missing length in the right triangle shown?

- A. 4 ft
- B. 5 ft
- C. 6 ft
- D. 7.5 ft

The answer is C.

#### Question 3

To the nearest tenth, what is the length of the distance from corner to opposite corner on the square floor mat shown?

- A. 32.0 ft
- B. 48.9 ft
- C. 56.6 ft
- D. 80.0 ft

The answer is C.

#### Question 4

What is the distance  $c$  between the points graphed? Round to the nearest tenth.

- A. 2.6 units
- B. 3.5 units
- C. 4.2 units
- D. 4.5 units

The answer is D.

### Round 3

#### Question 1

The area of a square is given by the formula  $A = s^2$ , where  $s$  represents the length of one side of the square. What is the length of each side of a square whose area is 289 square meters?

- A. 15 m
- B. 17 m
- C. 19 m
- D. 21 m

The answer is B.

#### Question 2

The Susan B. Anthony one-dollar coin weighs about  $\sqrt{72}$  grams. To the nearest tenth, how much does the coin weigh?

- A. 7.2 g
- B. 7.8 g
- C. 8.1 g
- D. 8.5 g

The answer is D.

## MINDJOGGER VIDEOQUIZ 3

### CHAPTER 3 • Real Numbers and the Pythagorean Theorem (con't)

#### Question 3

The hypotenuse of a right triangle is 30 cm and one of its legs is 18 cm. Find the length of the other leg.

- A. 24 cm
- B. 30 cm
- C. 35 cm
- D. 36 cm

The answer is A.

#### Question 4

Aysha departed town  $J$  at 7:45 A.M. She traveled 12 miles due south to town  $K$  and then 16 miles due west to town  $M$ . If Aysha arrived in town  $M$  at 8:30 A.M., how far is she from her starting point?

- A. 30 mi
- B. 24 mi
- C. 22 mi
- D. 20 mi

The answer is D.

## MINDJOGGER VIDEOQUIZ 4

CHAPTER 4 • Proportions, Algebra, and Geometry

### Round 1

#### Question 1

The Heritage Middle School basketball team has a record of 6 wins and 4 losses. What is the ratio of wins to losses?

- A. 2 to 5
- B. 2 to 3
- C. 3 to 5
- D. 3 to 2

The answer is D.

#### Question 2

Which expression can be used to find the rate of change between data with coordinates  $(x_1, y_1)$  and  $(x_2, y_2)$ ?

- A.  $\frac{y_2}{y_1} - \frac{x_2}{x_1}$
- B.  $\frac{y_2 - y_1}{x_2 - x_1}$
- C.  $\frac{y_2}{x_2} - \frac{y_1}{x_1}$
- D.  $\frac{x_2 - y_2}{x_1 - y_1}$

The answer is B.

#### Question 3

Which proportion will give  $m$ , the number of miles, for a 6-hour trip at a rate of 186 miles driven in 3 hours?

- A.  $\frac{6}{m} = \frac{186}{3}$
- B.  $\frac{186}{m} = \frac{6}{3}$
- C.  $\frac{186}{3} = \frac{m}{6}$
- D.  $\frac{m}{3} = \frac{186}{6}$

The answer is C.

#### Question 4

Which pair of figures are similar polygons?

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is A.

## MINDJOGGER VIDEOQUIZ 4

CHAPTER 4 • Proportions, Algebra, and Geometry (con't)

#### Question 5

The scale on a map is 1 inch = 25 miles. Which proportion can be used to find the actual distance for a map distance of 2.5 inches?

- A.  $\frac{1 \text{ in.}}{25 \text{ mi}} = \frac{2.5 \text{ in.}}{x \text{ mi}}$
- B.  $\frac{1 \text{ in.}}{x \text{ mi}} = \frac{2.5 \text{ in.}}{25 \text{ mi}}$
- C.  $\frac{1 \text{ in.}}{2.5 \text{ in.}} = \frac{x \text{ mi}}{25 \text{ mi}}$
- D.  $\frac{2.5 \text{ in.}}{1 \text{ in.}} = \frac{25 \text{ mi}}{x \text{ mi}}$

The answer is A.

### Round 2

#### Question 1

What is the rate of change in Kelly's allowance between ages 10 and 14?

- A. \$2 per year
- B. \$2.50 per year
- C. \$4 per year
- D. \$6 per year

The answer is B.

#### Question 2

What is the slope of the line shown?

- A.  $\frac{3}{5}$
- B.  $-\frac{3}{5}$
- C.  $-\frac{5}{3}$
- D.  $\frac{5}{3}$

The answer is A.

#### Question 3

What is the solution of

$$\frac{3}{15} = \frac{10}{m}?$$

- A. 35
- B. 30
- C. 45
- D. 50

The answer is D.

## MINDJOGGER VIDEOQUIZ 4

### CHAPTER 4 • Proportions, Algebra, and Geometry (con't)

#### Question 4

Segment  $A'B'$  with endpoints  $A'(2, 4)$ ,  $B'(5, 6)$  is a dilation of segment  $AB$  with endpoints  $A(1, 2)$ ,  $B(2.5, 3)$ . What is the scale factor of the dilation?

- A.  $\frac{1}{2}$
- B.  $\frac{2}{3}$
- C. 2
- D. 3

The answer is C.

### Round 3

#### Question 1

Which brand has the best buy for peanut butter?

- A. Brand A at 28 oz for \$3.64
- B. Brand B at 24 oz for \$2.88
- C. Brand C at 20 oz for \$2.80
- D. Brand D at 18 oz for \$2.70

The answer is B.

#### Question 2

A photo that is 8 inches wide and 10 inches long is reduced so that the length is 6 inches.

What is the width of the reduced photo?

- A. 4.8 in.
- B. 6.4 in.
- C. 7.5 in.
- D. 10 in.

The answer is A.

#### Question 3

A scale model of a tiger shark is 9 inches long. On the model, 3 inches represents 5 feet. What is the actual length of the tiger shark?

- A. 12 ft
- B. 14 ft
- C. 15 ft
- D. 18 ft

The answer is C.

#### Question 3

A tree casts a shadow of 6 meters while a building nearby casts a shadow of 15 meters. If the building is 25 meters tall, how tall is the tree?

- A. 8 m
- B. 10 m
- C. 12 m
- D. 18 m

The answer is B.

## MINDJOGGER VIDEOQUIZ 5

### CHAPTER 5 • Percent

### Round 1

#### Question 1

What percent does the model represent?

- A. 30%
- B. 34%
- C. 36%
- D. 44%

The answer is B.

#### Question 2

To write a decimal as a percent, by what number do you multiply before adding the percent symbol?

- A. 1
- B. 10
- C. 100
- D. 1,000

The answer is C.

#### Question 3

Which expression can be used to find 25% of 36 mentally?

- A.  $\frac{1}{10}$  of 36
- B.  $\frac{1}{4}$  of 36
- C.  $\frac{1}{4}$  of 40
- D.  $\frac{2}{5}$  of 40

The answer is B.

#### Question 4

Which equation shows the percent equation?

- A. Base • Part = Percent
- B. Part = Percent + Base
- C. Percent • Part = Base
- D. Part = Percent • Base

The answer is D.

#### Question 5

In the simple interest formula, which term refers to the amount of money paid or earned?

- A. interest
- B. principal
- C. rate
- D. time

The answer is A.

### Round 2

#### Question 1

Which fraction shows 45% written as a fraction in simplest form?

- A.  $\frac{4}{9}$
- B.  $\frac{9}{25}$
- C.  $\frac{4}{5}$
- D.  $\frac{9}{20}$

The answer is D.

## MINDJOGGER VIDEOQUIZ 5

### CHAPTER 5 • Percent (con't)

#### Question 2

8 is what percent of 40?

- A. 40%
- B. 35%
- C. 20%
- D. 15%

The answer is C.

#### Question 3

32 is 50% of what number?

- A. 82
- B. 64
- C. 16
- D. 15

The answer is B.

#### Question 4

Find the simple interest for \$428 invested at

$7\frac{3}{4}\%$  for  $1\frac{1}{2}$  years.

Round to the nearest cent.

- A. \$57.54
- B. \$49.76
- C. \$47.95
- D. \$45.23

The answer is B.

### Round 3

#### Question 1

Twelve out of the 30 students in Mr. Richards' class own a DVD player. What percent of the students own a DVD player?

- A. 30%
- B. 35%
- C. 40%
- D. 45%

The answer is C.

#### Question 2

In a survey, 30% of students ages 10-17 chose math as their favorite subject. If 1,500 students were surveyed, how many chose math?

- A. 450
- B. 440
- C. 420
- D. 400

The answer is A.

## MINDJOGGER VIDEOQUIZ 5

### CHAPTER 5 • Percent (con't)

#### Question 3

About 23% of 4,200 consumers surveyed said that they eat pasta twice a week. Which is the best estimate of the number of people in the survey who eat pasta twice a week?

- A. less than 950
- B. about 1,000
- C. about 1,150
- D. more than 1,200

The answer is B.

#### Question 4

In 1998, a bank charged a \$20 fee for a check that had bounced. In 2003, the fee was \$25. What was the percent of change?

- A. 5%
- B. 10%
- C. 20%
- D. 25%

The answer is D.

## MINDJOGGER VIDEOQUIZ 6

CHAPTER 6 • Geometry

### Round 1

#### Question 1

Two intersecting lines are shown. What is the relationship between angles 1 and 3?

- A. complementary angles
- B. vertical angles
- C. straight angles
- D. supplementary angles

The answer is B.

#### Question 2

Triangle  $RST$  is a right triangle. What is the length of  $\overline{ST}$ ?

- A. 3 cm
- B. 4 cm
- C. 6 cm
- D. 12 cm

The answer is C.

#### Question 3

Which parallelogram has four congruent sides and four right angles?

- A. trapezoid
- B. square
- C. rhombus
- D. rectangle

The answer is B.

#### Question 4

Which statement is the congruence statement for triangles  $ABC$  and  $XYZ$  shown?

- A.  $\triangle ABC \cong \triangle ZXY$
- B.  $\triangle ABC \cong \triangle XYZ$
- C.  $\triangle BCA \cong \triangle YZX$
- D.  $\triangle XYZ \cong \triangle BAC$

The answer is A.

#### Question 5

What kind of symmetry does the figure have?

- A. line
- B. rotational
- C. line and rotational
- D. no symmetry

The answer is C.

### Round 2

#### Question 1

What is  $m\angle 2$  if  $m\angle 8 = 112^\circ$ ?

- A. 84
- B. 112
- C. 148
- D. 248

The answer is B.

## MINDJOGGER VIDEOQUIZ 6

CHAPTER 6 • Geometry (con't)

#### Question 2

Classify the triangle shown by its angles and by its sides.

- A. obtuse isosceles
- B. right scalene
- C. acute isosceles
- D. obtuse equilateral

The answer is A.

#### Question 3

A  $30^\circ$ - $60^\circ$  right triangle is shown. What is the length of the side opposite the  $30^\circ$  angle?

- A. 5.7 m
- B. 6.5 m
- C. 7.3 m
- D. 8.4 m

The answer is B.

#### Question 4

Which figure has rotational symmetry?

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is D.

### Round 3

#### Question 1

In quadrilateral  $RSTU$ ,  $m\angle R = x^\circ$ ,  $m\angle S = 125^\circ$ ,  $m\angle T = 55^\circ$ , and  $m\angle U = 42^\circ$ . What is the value of  $x$ ?

- A. 138
- B. 94
- C. 69
- D. 46

The answer is A.

#### Question 2

Triangle  $ABC$  with vertices  $A(-5, 2)$ ,  $B(-2, 4)$ , and  $C(-1, 1)$  is reflected over the  $y$ -axis. What are the vertices of the reflection?

- A.  $A'(5, -2)$ ,  $B'(2, -4)$ ,  $C'(1, -1)$
- B.  $A'(-5, 2)$ ,  $B'(-2, 4)$ ,  $C'(-1, -1)$
- C.  $A'(-2, 5)$ ,  $B'(-4, 2)$ ,  $C'(-1, 1)$
- D.  $A'(5, 2)$ ,  $B'(2, 4)$ ,  $C'(1, 1)$

The answer is D.

## MINDJOGGER VIDEOQUIZ 6

### CHAPTER 6 • Geometry (con't)

#### Question 3

Which coordinates are the coordinates of point  $S$  after a translation 5 units left and 3 units up?

- A.  $S'(-4, 4)$
- B.  $S'(-5, 3)$
- C.  $S'(6, 4)$
- D.  $S'(-4, -2)$

The answer is A.

#### Question 4

Triangle  $MAC$  has vertices  $M(-4, -1)$ ,  $A(-2, -3)$ , and  $C(-5, -5)$ . If  $\triangle MAC$  is rotated  $90^\circ$  counterclockwise about the origin, what are the coordinates of the vertices of  $\triangle M'A'C'$ ?

- A.  $M'(-1, 4)$ ,  $A'(-3, 2)$ ,  $C'(-5, 5)$
- B.  $M'(4, 1)$ ,  $A'(2, 3)$ ,  $C'(5, 5)$
- C.  $M'(1, -4)$ ,  $A'(3, -2)$ ,  $C'(5, -5)$
- D.  $M'(1, 4)$ ,  $A'(3, 2)$ ,  $C'(5, 5)$

The answer is C.

## MINDJOGGER VIDEOQUIZ 7

### CHAPTER 7 • Geometry: Measuring Area and Volume

#### Round 1

##### Question 1

Which equation can be used to find the area of the triangle?

- A.  $A = \frac{1}{2} \cdot 16 \cdot 12$
- B.  $A = 2 \cdot 16 \cdot 12$
- C.  $A = 16 \cdot 12$
- D.  $A = \frac{1}{2}(16 + 12)$

The answer is A.

##### Question 2

Which formula can be used to find the circumference of a circle?

- A.  $C = \pi r^2$
- B.  $C = 2\pi d$
- C.  $C = 2\pi r d$
- D.  $C = 2\pi r$

The answer is D.

##### Question 3

Which figure is a triangular prism?

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is C.

#### Question 4

Which expression can be used to find the surface area of a cylinder?

- A.  $\pi r^2 h$
- B.  $\frac{1}{3} \pi r^2 h$
- C.  $2\pi r^2 + 2\pi r h$
- D.  $2\pi + 2\pi r h^2$

The answer is C.

#### Question 5

Which formula can be used to find the surface area of a cone with slant height  $\ell$ ?

- A.  $S = \frac{1}{3} \pi r^2 h$
- B.  $S = \pi r \ell + \pi r^2$
- C.  $S = 2\pi r + \ell r$
- D.  $S = \frac{1}{2} r \ell + \pi r^2$

The answer is B.

#### Round 1

##### Question 1

How many significant digits are in the measure 0.205 kilometers?

- A. 4
- B. 3
- C. 2
- D. 1

The answer is B.

## MINDJOGGER VIDEOQUIZ 7

CHAPTER 7 • Geometry: Measuring Area and Volume  
(con't)

### Question 2

What is the area of trapezoid  $JKLM$ ?

- A.  $9 \text{ m}^2$
- B.  $12.6 \text{ m}^2$
- C.  $13 \text{ m}^2$
- D.  $16 \text{ m}^2$

The answer is A.

### Question 3

To the nearest tenth, what is the volume of a cone that is 4 inches tall with a radius of 3 inches?

- A.  $28.9 \text{ in}^3$
- B.  $31.4 \text{ in}^3$
- C.  $35.6 \text{ in}^3$
- D.  $37.7 \text{ in}^3$

The answer is D.

### Question 4

What is the surface area of the triangular prism?

- A.  $420 \text{ ft}^2$
- B.  $112 \text{ ft}^2$
- C.  $96 \text{ ft}^2$
- D.  $84 \text{ ft}^2$

The answer is C.

## Round 3

### Question 1

The diameter of a compact disc is 12 centimeters. To the nearest tenth, what is the area of the compact disc?

- A.  $38.0 \text{ cm}^2$
- B.  $113.1 \text{ cm}^2$
- C.  $144 \text{ cm}^2$
- D.  $452.4 \text{ cm}^2$

The answer is B.

### Question 2

What is the area of the playing field shown?

- A.  $1,964.5 \text{ yd}^2$
- B.  $5,000 \text{ yd}^2$
- C.  $5,981.4 \text{ yd}^2$
- D.  $6,963.4 \text{ yd}^2$

The answer is D.

## MINDJOGGER VIDEOQUIZ 7

CHAPTER 7 • Geometry: Measuring Area and Volume  
(con't)

### Question 3

Jenna has a cylindrical planter with a radius of 8 inches and a height of 12 inches. She is filling the planter with soil leaving 2 inches of space at the top. About how much soil will she need?

- A.  $2,412.7 \text{ in}^3$
- B.  $2,010.6 \text{ in}^3$
- C.  $192 \text{ in}^3$
- D.  $100.5 \text{ in}^3$

The answer is B.

### Question 4

The candle shown is pyramid-shaped with a square base whose sides are 5 inches long. If the candle is 6 inches tall, what is its volume?

- A.  $30 \text{ in}^3$
- B.  $48 \text{ in}^3$
- C.  $50 \text{ in}^3$
- D.  $75 \text{ in}^3$

The answer is C.

## MINDJOGGER VIDEOQUIZ 8

### CHAPTER 8 • Probability

#### Round 1

##### Question 1

What is the probability of getting a purple gumball from a machine containing 2 red, 4 yellow, 3 green, and 3 orange gumballs?

- A. 1
- B.  $\frac{1}{4}$
- C.  $\frac{1}{12}$
- D. 0

The answer is D.

##### Question 2

What is the value of  $4!$ ?

- A. 16
- B. 24
- C. 36
- D. 256

The answer is B.

##### Question 3

An arrangement or listing of items where order is *not* important is called a \_\_\_\_\_.

- A. combination
- B. permutation
- C. simulation
- D. translation

The answer is A.

##### Question 4

Rolling a number cube and spinning a spinner is an example of \_\_\_\_\_.

- A. a combination
- B. dependent events
- C. experimental probability
- D. independent events

The answer is D.

##### Question 5

Which is an example of a biased sample to determine if students would like to have a school art fair?

- A. Students are picked at random from each grade.
- B. Students' names are drawn from a bowl containing all students' names.
- C. Students in one art class are chosen.
- D. Every 25th student is chosen from an alphabetical list.

The answer is C.

## MINDJOGGER VIDEOQUIZ 8

### CHAPTER 8 • Probability (con't)

#### Round 2

##### Question 1

A football team has red jerseys and blue jerseys. They also have red pants, white pants, and blue pants. How many different uniforms can the team wear?

- A. 4
- B. 6
- C. 8
- D. 12

The answer is B.

##### Question 2

How many different ways can the letters in the word EQUATION be arranged if the letters are taken four at a time?

- A. 2,040
- B. 1,680
- C. 460
- D. 32

The answer is B.

##### Question 3

How many different ways can a 3-person committee be selected from a club with 8 members?

- A. 24
- B. 38
- C. 56
- D. 120

The answer is C.

##### Question 4

The number cube is rolled, and the spinner is spun. What is  $P(3 \text{ and blue})$ ?

- A.  $\frac{1}{12}$
- B.  $\frac{2}{3}$
- C.  $\frac{1}{2}$
- D.  $\frac{1}{6}$

The answer is A.

## MINDJOGGER VIDEOQUIZ 8

### CHAPTER 8 • Probability (con't)

#### Round 1

##### Question 1

How many outcomes are possible in choosing one lunch entrée from pasta, fish, or chicken, one side dish from salad, fruit, or chips, and one beverage from juice, milk, water, or a soft drink?

- A. 3
- B. 10
- C. 24
- D. 36

The answer is D.

##### Question 2

Alisa selected two markers without replacement from a bag containing 4 blue, 3 red, 5 purple, and 4 green markers. What is the probability that both of the markers will be blue?

- A.  $\frac{3}{64}$
- B.  $\frac{1}{20}$
- C.  $\frac{1}{8}$
- D.  $\frac{1}{4}$

The answer is B.

##### Question 3

Anoki tossed three pennies 50 times. Six of the outcomes were 3 heads. Based on his results, how many results of 3 heads would you expect in 75 tries?

- A. 3
- B. 6
- C. 9
- D. 12

The answer is C.

##### Question 4

Based on the survey results shown, predict how many out of 400 students would prefer tennis.

- A. 20
- B. 30
- C. 60
- D. 90

The answer is C.

## MINDJOGGER VIDEOQUIZ 9

### CHAPTER 9 • Statistics and Matrices

#### Round 1

##### Question 1

What type of graph is shown?

- A. bar graph
- B. frequency table
- C. histogram
- D. line plot

The answer is C.

##### Question 2

Which display lists all individual numerical data in a condensed form?

- A. bar graph
- B. circle graph
- C. histogram
- D. stem-and-leaf plot

The answer is D.

##### Question 3

What is the mode of the data set?

- A. 68 in.
- B. 67 in.
- C. 64 in.
- D. 59 in.

The answer is B.

##### Question 4

In a box-and-whisker plot, the box is drawn around the \_\_\_\_\_.

- A. least and greatest values
- B. median and least value
- C. upper quartile and greatest value
- D. quartile values

The answer is D.

##### Question 5

For which set of data is the mean *not* representative of the set?

- A. 38, 39, 8, 41, 40
- B. 111, 118, 120, 115, 116
- C. 16, 13, 15, 12, 19
- D. 81, 83, 81, 80, 84

The answer is A.

## MINDJOGGER VIDEOQUIZ 9

CHAPTER 9 • Statistics and Matrices (con't)

### Round 2

#### Question 1

Suppose one section of a circle graph represents 40%. Find the number of degrees for this section.

- A.  $132^\circ$
- B.  $144^\circ$
- C.  $156^\circ$
- D.  $166^\circ$

The answer is B.

#### Question 2

The ages of 10 people randomly chosen at an amusement park are shown. What is the range of the ages?

12 15 68 46 24  
47 56 72 6 14

- A. 35
- B. 36
- C. 66
- D. 360

The answer is C.

#### Question 3

What is the lower quartile for the set of data shown?

12 21 22 24 32 36  
44 56 67 71 84 92

- A. 69
- B. 40
- C. 36
- D. 23

The answer is D.

#### Question 4

What is the sum of

$\begin{bmatrix} 6 & -2 & 10 \\ 4 & 0 & -9 \end{bmatrix}$  and  $\begin{bmatrix} -8 & 7 & -5 \\ -4 & 2 & 3 \end{bmatrix}$ ?

- A.  $\begin{bmatrix} -2 & 5 & 5 \\ 0 & 2 & -6 \end{bmatrix}$
- B.  $\begin{bmatrix} -2 & 5 & 5 \\ 0 & 2 & 6 \end{bmatrix}$
- C.  $\begin{bmatrix} 2 & 5 & 15 \\ 0 & 2 & -6 \end{bmatrix}$
- D.  $\begin{bmatrix} 14 & 5 & 5 \\ -8 & 2 & -6 \end{bmatrix}$

The answer is A.

## MINDJOGGER VIDEOQUIZ 9

CHAPTER 9 • Statistics and Matrices (con't)

### Round 3

#### Question 1

Use the histogram to find how many signers of the Declaration of Independence were 50 or older.

- A. 7
- B. 10
- C. 16
- D. 17

The answer is D.

#### Question 2

Which statement can be made from the graph?

- A. Most students were absent 0-2 days.
- B. No one missed more than 10 days.
- C. About one-third of the students missed fewer than 3 days.
- D. Ten students had no days absent.

The answer is C.

#### Question 3

According to the box-and-whisker plot, what percent of the temperatures were between  $35^\circ\text{F}$  and  $80^\circ\text{F}$ ?

- A. 100%
- B. 75%
- C. 50%
- D. 25%

The answer is C.

#### Question 4

Which of the following statements is *not* supported by the information in the graph?

- A. The mode of the data is 40.
- B. There are 9 boys in the group.
- C. The median number sold is 35.
- D. The range of the data is 60.

The answer is D.

## MINDJOGGER VIDEOQUIZ 10

CHAPTER 10 • Algebra: More Equations and Inequalities

### Round 1

#### Question 1

Which step should be used first to solve the equation  $\frac{d}{12} - 8 = 6$ ?

- A. Add 8 to each side.
- B. Multiply each side by 12.
- C. Subtract 6 from each side.
- D. Subtract 8 from each side.

The answer is A.

#### Question 2

Which equation represents the sentence *4 more than 3 times a number is 10*?

- A.  $3 + 4n = 10$
- B.  $4 - 3n = 10$
- C.  $3n + 4 = 10$
- D.  $3n - 4 = 10$

The answer is C.

#### Question 3

Which step is the first step to solve

$$2x - 3 = 4x - 1?$$

- A.  $2x - 2x - 3 = 4x - 1$
- B.  $2x - 3 = 4x - 4x - 1$
- C.  $2x - 2x - 3 = 4x - 4x - 1$
- D.  $2x - 2x - 3 = 4x - 2x - 1$

The answer is D.

#### Question 4

Which inequality is graphed on the number line?

- A.  $x < 17$
- B.  $x > 17$
- C.  $x \leq 17$
- D.  $x \geq 17$

The answer is A.

#### Question 5

When you add or subtract the same number from each side of an inequality, the inequality \_\_\_\_\_.

- A. is always reversed
- B. always remains true
- C. is reversed when you add
- D. is reversed when you subtract

The answer is B.

## MINDJOGGER VIDEOQUIZ 10

CHAPTER 10 • Algebra: More Equations and Inequalities (con't)

### Round 2

#### Question 1

Which expression represents  $3(6a - 4)$  in simplest form?

- A.  $18a + 12$
- B.  $18a - 4$
- C.  $18a - 12$
- D.  $6a - 12$

The answer is C.

#### Question 2

What is the solution of  $3x + 5 - x = 9$ ?

- A. 1
- B. 2
- C. 3
- D. 4

The answer is B.

#### Question 3

Which number line shows the graph of the solution of  $-5 \leq d + 12$ ?

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is D.

#### Question 4

What is the solution of  $-2x \geq 18$ ?

- A.  $x \geq 9$
- B.  $x \leq -36$
- C.  $x \leq -9$
- D.  $x \geq 36$

The answer is C.

### Round 3

#### Question 1

Tyrone saved \$5 less than twice the amount Matt saved. Josh saved \$145. How much did Matt save?

- A. \$70
- B. \$75
- C. \$145
- D. \$285

The answer is B.

#### Question 2

Four times a number plus 10 is 6 times the number. What is the number?

- A. -20
- B. -5
- C. 20
- D. 5

The answer is D.

## MINDJOGGER VIDEOQUIZ 10

CHAPTER 10 • Algebra: More Equations and Inequalities  
(con't)

### Question 3

A South American manatee can weigh as much as 1,300 pounds. Which inequality expresses this weight?

- A.  $w \leq 1,300$
- B.  $w < 1,300$
- C.  $w \geq 1,300$
- D.  $w > 1,300$

The answer is A.

### Question 4

Which inequality represents the number of bracelets for \$6 each that Julia can buy if she has \$33?

- A.  $n \geq 5$
- B.  $n \leq 5$
- C.  $n \leq 6$
- D.  $n \geq 6$

The answer is B.

## MINDJOGGER VIDEOQUIZ 11

CHAPTER 11 • Algebra: Linear Functions

### Round 1

#### Question 1

Which graph has a positive slope?

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is B.

#### Question 2

Which equation is in slope-intercept form?

- A.  $3x + 2y = 4$
- B.  $x = 3y + 1$
- C.  $y + 4 = 2x$
- D.  $y = -2x + 1$

The answer is D.

#### Question 3

What type of relationship does the scatter plot show?

- A. negative relationship
- B. positive relationship
- C. no relationship
- D. more information needed

The answer is A.

#### Question 4

Which ordered pair is the solution of the system of equations?

- A. (0, 0)
- B. (2, 0)
- C. (2, 1)
- D. (1, 2)

The answer is D.

#### Question 5

If  $f(x) = -4x + 17$ , what is the value of  $f(-3)$ ?

- A. 29
- B. 22
- C. 15
- D. 10

The answer is A.

### Round 2

#### Question 1

What are the next three terms in the sequence?

2, -4, 8, -16, ...

- A. 24, -32, 40
- B. 32, -64, 128
- C. -32, -64, -128
- D. 32, 64, 128

The answer is B.

## MINDJOGGER VIDEOQUIZ 11

CHAPTER 11 • Algebra: Linear Functions (con't)

### Question 2

What is the slope of the line that passes through  $A(-3, 2)$  and  $B(-5, 2)$ ?

- A.  $-2$
- B.  $\frac{1}{3}$
- C.  $0$
- D. undefined

The answer is C.

### Question 3

What are the slope and  $y$ -intercept of the graph of  $2x + y = 6$ ?

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is D.

### Question 4

Which graph is the graph of  $y < -\frac{1}{2}x + 2$ ?

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is C.

## Round 3

### Question 1

If the pattern continues, how many sit-ups will Sam do on day 7?

- A. 63
- B. 68
- C. 74
- D. 76

The answer is C.

### Question 2

Which function represents the monthly cost  $c$  of phone service at \$15 a month plus \$0.09 a minute for calls?

- A.  $c = 15 + 0.09m$
- B.  $c = (15 + 0.09)m$
- C.  $15 = c + 0.09m$
- D.  $15 - 0.09m = c$

The answer is A.

## MINDJOGGER VIDEOQUIZ 11

CHAPTER 11 • Algebra: Linear Functions (con't)

### Question 3

Which graph represents

$$y = 2x - 2?$$

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is D.

### Question 4

The equation  $y = \$6x + \$25$  represents the amount Sonia will have saved at the end of  $x$  weeks. What does the slope of the graph of the equation represent?

- A. the total amount saved
- B. the amount saved each week
- C. the initial amount
- D. none of the above

The answer is B.

## MINDJOGGER VIDEOQUIZ 12

### CHAPTER 12 • Algebra: Nonlinear Functions and Polynomials

#### Round 1

##### Question 1

Which function is a quadratic function?

- A.  $y = 4x^3 - 2$
- B.  $y = 2x + 3$
- C.  $y = x + 3^2$
- D.  $y = -3x^2 + 8$

The answer is D.

##### Question 2

Which algebraic expression is *not* a monomial?

- A.  $4a^2$
- B. 2
- C.  $\frac{a}{3}$
- D.  $a + 3$

The answer is D.

##### Question 3

What is the additive inverse of  $2x^2 - 3x + 4$ ?

- A.  $-2x^2 - 3x + 4$
- B.  $-2x^2 + 3x - 4$
- C.  $2x^2 - 3x - 4$
- D.  $2x^2 + 3x - 4$

The answer is B.

##### Question 4

Which equation shows the Product of Powers rule?

- A.  $2^2 \cdot 2^4 = 2^{2+4}$
- B.  $2^2 \cdot 2^4 = 2^{2 \cdot 4}$
- C.  $2^2 \cdot 2^4 = 2^{2 \cdot 4}$
- D.  $2^2 \cdot 2^4 = 2^{2-4}$

The answer is A.

##### Question 5

Which equation represents a nonlinear function?

- A.  $y = 2x + 3$
- B.  $y = \frac{1}{2}x$
- C.  $x = 2 + y$
- D.  $y = \frac{3}{x}$

The answer is D.

#### Round 2

##### Question 1

What is the sum of  $3x + 2$  and  $2x - 4$ ?

- A.  $5x - 2$
- B.  $-5x - 2$
- C.  $5x - 6$
- D.  $5x + 2$

The answer is A.

## MINDJOGGER VIDEOQUIZ 12

### CHAPTER 12 • Algebra: Nonlinear Functions and Polynomials (con't)

##### Question 2

Which expression is the simplest form for  $4x - 2x^2 - 2x + 1 + x^2$ ?

- A.  $-x^2 + 2x + 1$
- B.  $x^2 - 2x + 1$
- C.  $-x^4 + 2x + 1$
- D.  $3x^2 + 6x + 1$

The answer is A.

##### Question 3

Find the difference of  $5d - 3c$  and  $2d + 4c$ .

- A.  $3d + c$
- B.  $3d - 7c$
- C.  $7d - 7c$
- D.  $7d + c$

The answer is B.

##### Question 4

What is the quotient of  $4^6$  and  $4^3$ ?

- A.  $4^2$
- B.  $4^3$
- C.  $4^9$
- D.  $4^{18}$

The answer is B.

#### Round 3

##### Question 1

Which graph is the graph of the function  $y = x^2 + 1$ ?

- A. (art)
- B. (art)
- C. (art)
- D. (art)

The answer is C.

##### Question 2

What is the perimeter of the parallelogram?

- A.  $(3x + 1)$  in.
- B.  $(2x^2 - 12)$  in.
- C.  $(6x + 2)$  in.
- D.  $(3x^2 + 2)$  in.

The answer is C.

##### Question 3

What is the volume of the rectangular prism?

- A.  $4a^2 \text{ ft}^3$
- B.  $6a^3 \text{ ft}^3$
- C.  $8a^2 \text{ ft}^3$
- D.  $8a^3 \text{ ft}^3$

The answer is D.

##### Question 4

The length of a rectangle is 4 inches longer than twice its width. If  $w$  represents the width, which expression represents the area of the rectangle?

- A.  $6w + 8$
- B.  $2w^2 + 4w$
- C.  $2w^2 + 4$
- D.  $2w^2 + 8w$

The answer is B.

**Glencoe  
MindJogger Videoquiz  
Scoring Sheet**

**Chapter** \_\_\_\_\_ **Names** \_\_\_\_\_

**Date** \_\_\_\_\_

**Period** \_\_\_\_\_

**Round 1**

**Question 1** \_\_\_\_\_  
**Question 2** \_\_\_\_\_  
**Question 3** \_\_\_\_\_  
**Question 4** \_\_\_\_\_  
**Question 5** \_\_\_\_\_ **Total Points** \_\_\_\_\_

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**Round 2**

**Question 1** \_\_\_\_\_  
**Question 2** \_\_\_\_\_  
**Question 3** \_\_\_\_\_  
**Question 4** \_\_\_\_\_ **Total Points** \_\_\_\_\_

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**Round 3**

**Question 1** \_\_\_\_\_  
**Question 2** \_\_\_\_\_  
**Question 3** \_\_\_\_\_  
**Question 4** \_\_\_\_\_ **Total Points** \_\_\_\_\_

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**Total points from all three rounds** \_\_\_\_\_

**Glencoe  
MindJogger Videoquiz  
Scoring Sheet**

**Chapter** \_\_\_\_\_ **Names** \_\_\_\_\_

**Date** \_\_\_\_\_

**Period** \_\_\_\_\_

**Round 1**

**Question 1** \_\_\_\_\_  
**Question 2** \_\_\_\_\_  
**Question 3** \_\_\_\_\_  
**Question 4** \_\_\_\_\_  
**Question 5** \_\_\_\_\_ **Total Points** \_\_\_\_\_

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**Round 2**

**Question 1** \_\_\_\_\_  
**Question 2** \_\_\_\_\_  
**Question 3** \_\_\_\_\_  
**Question 4** \_\_\_\_\_ **Total Points** \_\_\_\_\_

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**Round 3**

**Question 1** \_\_\_\_\_  
**Question 2** \_\_\_\_\_  
**Question 3** \_\_\_\_\_  
**Question 4** \_\_\_\_\_ **Total Points** \_\_\_\_\_

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**Total points from all three rounds** \_\_\_\_\_

A

B

C

D

Mc  
Graw  
Hill

Glencoe

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