

**Teacher's Guide for
MindJogger
Videoquizzes**

Glencoe

Geometry

Includes:

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

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TO THE TEACHER

The *Glencoe Geometry* package contains three videotapes, a Teacher Guide, and answer cards. There is a videoquiz for each of the 13 chapters of *Geometry*. 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

Glencoe Geometry 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

MindJogger Videoquizzes cover concepts in each chapter of *Glencoe Geometry*.

- | | |
|---------------------|---|
| Videoquiz 1 | Use after Chapter 1:
Lines and Angles |
| Videoquiz 2 | Use after Chapter 2:
Reasoning and Proof |
| Videoquiz 3 | Use after Chapter 3:
Parallel and Perpendicular Lines |
| Videoquiz 4 | Use after Chapter 4:
Congruent Triangles |
| Videoquiz 5 | Use after Chapter 5:
Relationships in Triangles |
| Videoquiz 6 | Use after Chapter 6:
Proportions and Similarity |
| Videoquiz 7 | Use after Chapter 7:
Right Triangles and Trigonometry |
| Videoquiz 8 | Use after Chapter 8:
Quadrilaterals |
| Videoquiz 9 | Use after Chapter 9:
Transformations |
| Videoquiz 10 | Use after Chapter 10:
Circles |
| Videoquiz 11 | Use after Chapter 11:
Areas of Polygons and Circles |
| Videoquiz 12 | Use after Chapter 12:
Surface Area |
| Videoquiz 13 | Use after Chapter 13:
Volume |

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 • Lines and Angles

Round 1

Question 1

In the figure shown, which three points are collinear?

- A. A, C, D
- B. F, G, B
- C. B, E, C
- D. D, C, F

The answer is C.

Question 2

What is BD ?

- A. 3.7 cm
- B. 9.3 cm
- C. 5.6 cm
- D. 1.9 cm

The answer is B.

Question 3

What is the perimeter of the rectangle?

- A. 3.4 m
- B. 1.7 m
- C. 0.5625 m^2
- D. 2.95 m

The answer is A.

Question 4

What is the coordinate of the midpoint of \overline{JK} ?

- A. 0
- B. 2
- C. 2.5
- D. 3

The answer is B.

Question 5

Which term best describes $\angle DXB$?

- A. acute angle
- B. right angle
- C. obtuse angle
- D. straight angle

The answer is C.

Round 2

Question 1

How many planes are shown in the figure?

- A. 3
- B. 5
- C. 4
- D. 2

The answer is B.

Question 2

Point G is between F and H , $FH = 5x + 2$, $FG = 2x + 12$, and $GH = x - 2$. What is FG ?

- A. 4
- B. 20
- C. 2
- D. 22

The answer is B.

MINDJOGGER VIDEOQUIZ 1

CHAPTER 1 • Lines and Angles (con't)

Question 3

If $P(5, -6)$ is the midpoint of \overline{MN} and the coordinates of N are $(-1, 7)$, what are the coordinates of M ?

- A. $(9, -5)$
- B. $(-7, 20)$
- C. $(2, \frac{1}{2})$
- D. $(11, -19)$

The answer is D.

Question 4

In the figure shown, what is $m\angle XYZ$?

- A. 11
- B. 38
- C. 52
- D. 142

The answer is D.

Round 3

Question 1

Tamika constructed an angle congruent to a 168° angle. She bisected it and then bisected the result. What is the measure of the smallest angle?

- A. 84
- B. 42
- C. 21
- D. 10.5

The answer is B.

Question 2

The measure of an angle is 12 less than twice its complement. What is the measure of the angle?

- A. 34
- B. 56
- C. 116
- D. 26

The answer is B.

Question 3

What is the length of the pond?

- A. 8.9 m
- B. 3.5 m
- C. 6.9 m
- D. 8.2 m

The answer is A.

Question 4

Ty wants to build a pen for his puppy along the side of the garage. If he has 12 feet of fencing, which dimensions provide the maximum area?

- A. 3 ft by 3 ft
- B. 2 ft by 8 ft
- C. 4 ft by 4 ft
- D. 3 ft by 6 ft

The answer is D.

MINDJOGGER VIDEOQUIZ 2

CHAPTER 2 • Reasoning and Proof

Round 1

Question 1

Which conjecture is true based on the given information?

Given: \overleftrightarrow{LM} and \overleftrightarrow{PQ} intersect at X .

- A. \overleftrightarrow{LM} and \overleftrightarrow{PQ} are perpendicular.
- B. L , X , and Q are collinear.
- C. $\angle LXP$ and $\angle QXM$ are vertical angles.
- D. $LM = PQ$

The answer is C.

Question 2

How many of the people surveyed travel by both train and plane?

- A. 27
- B. 31
- C. 74
- D. 101

The answer is A.

Question 3

How many segments will be drawn if each point is connected to each other point?

- A. 30
- B. 15
- C. 12
- D. 10

The answer is B.

Question 4

Which property justifies the following statement?

If $m\angle XYZ = m\angle LMN$ and $m\angle LMN = m\angle QRS$, then $m\angle XYZ = m\angle QRS$.

- A. Definition of Congruent Angles
- B. Angle Addition Postulate
- C. Symmetric Property
- D. Transitive Property

The answer is D.

Question 5

Which given and prove statements would you use to prove that congruence of segments is transitive?

- A. **Given:** $\overline{AB} \cong \overline{CD}$ and $\overline{CD} \cong \overline{XW}$
Prove: $\overline{AB} \cong \overline{XW}$
- B. **Given:** $\angle Y \cong \angle W$, $\angle Y \cong \angle X$
Prove: $\angle X \cong \angle W$
- C. **Given:** $PR = QS$, $PQ = RS$
Prove: $PQ = RS$
- D. **Given:** three segments

Prove: They are transitive.

The answer is A.

MINDJOGGER VIDEOQUIZ 2

CHAPTER 2 • Reasoning and Proof (con't)

Round 2

Question 1

What is the contrapositive of the following true conditional?
Obtuse angles have measures greater than 90.

- A. If an angle is obtuse, then its measure is greater than 90.
- B. If an angle is not obtuse, then its measure is not greater than 90.
- C. If an angle's measure is greater than 90, then the angle is obtuse.
- D. If an angle's measure is not greater than 90, then the angle is not obtuse.

The answer is D.

Question 2

From which set of statements can you draw a valid conclusion?

- A. (1) If an angle is acute, then its measure is less than 90.
(2) If an angle is acute, then it is not obtuse.
- B. (1) If a flower is a rose, then it is beautiful.
(2) This flower is beautiful.
- C. (1) Racecar drivers like to drive fast.
(2) If a person likes to drive fast, then they should wear a helmet.
- D. (1) If you are in a swimming pool, then you are all wet.
(2) Sonia is all wet.

The answer is C.

Question 3

Which property justifies the following statement?
If $WX + XY = WY$, then $WX = WY - XY$.

- A. Subtraction Property
- B. Addition Property
- C. Transitive Property
- D. Reflexive Property

The answer is A.

MINDJOGGER VIDEOQUIZ 2

CHAPTER 2 • Reasoning and Proof (con't)

Question 4

If $\overline{RS} \cong \overline{TV}$ and $\overline{TV} \cong \overline{XY}$, then which statement is not a valid conclusion?

- A. $RS = TV$ and $TV = XY$
- B. $RS = 2XY$
- C. $RS = XY$
- D. $\overline{RS} \cong \overline{XY}$

The answer is B.

Round 3

Question 1

Which statement has a true converse?

- A. If two angles are vertical, then they are congruent.
- B. If the measure of an angle is 90, then it is a right angle.
- C. Vertical angles are not adjacent angles.
- D. If two lines are perpendicular, then they intersect.

The answer is B.

Question 2

An ice cream shop's slogan is *If you want a cold, sweet treat, you won't be happy unless you eat at Dairy Freeze.* Which given true statement would lead to the conclusion that you won't be happy unless you eat at Dairy Freeze?

- A. You do not want a cold, sweet treat.
- B. You love to eat at Dairy Freeze.
- C. You want a cold, sweet treat.
- D. You have never eaten at Dairy Freeze.

The answer is C.

MINDJOGGER VIDEOQUIZ 2

CHAPTER 2 • Reasoning and Proof (con't)

Question 3

Explain how to prove:
If $-3x + 4 = 7$, then
 $x = -1$.

- A. Use the Addition Property and then the Division Property.
- B. Use the Addition and Subtraction Properties.
- C. Use the Subtraction Property and then the Division Property.
- D. Use the Division Property.

The answer is C.

Question 4

If $\angle J$ and $\angle K$ form a linear pair, $m\angle J = 2x + 4$, and $m\angle K = 4x - 7$, find $m\angle J$ and $m\angle K$.

- A. $m\angle J = 65$,
 $m\angle K = 115$
- B. $m\angle J = 66$,
 $m\angle K = 117$
- C. $m\angle J = 30.5$,
 $m\angle K = 149.5$
- D. $m\angle J = 35$, $m\angle K = 55$

The answer is A.

MINDJOGGER VIDEOQUIZ 3

CHAPTER 3 • Parallel and Perpendicular Lines

Round 1

Question 1

Which special name describes $\angle 6$ and $\angle 3$?

- A. alternate interior angles
- B. alternate exterior angles
- C. corresponding angles
- D. consecutive interior angles

The answer is B.

Question 2

If two parallel lines are cut by a transversal, which angles are not necessarily congruent?

- A. corresponding angles
- B. alternate interior angles
- C. consecutive interior angles
- D. alternate exterior angles

The answer is C.

Question 3

If the slope of \overline{FG} is $-\frac{2}{3}$ and $\overline{FG} \perp \overline{JK}$, what is the slope of \overline{JK} ?

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

The answer is D.

Question 4

The shortest distance from a line to a point not on the line is the length of the segment _____.

- A. connecting the point and the line
- B. connecting the point to any point on the line
- C. parallel to the line from the point
- D. perpendicular to the line from the point

The answer is D.

MINDJOGGER VIDEOQUIZ 3

CHAPTER 3 • Parallel and Perpendicular Lines (con't)

Question 5

Which equation is written in slope-intercept form?

- A. $y = 3x + 7$
- B. $y + 7 = 3(x - 6)$
- C. $m = \frac{3 - 8}{4 - (-2)}$
- D. $y + 3x = 7$

The answer is A.

Round 2

Question 1

Which segments are skew?

- A. \overline{SV} and \overline{XY}
- B. \overline{YW} and \overline{US}
- C. \overline{UV} and \overline{TU}
- D. \overline{SW} and \overline{XY}

The answer is D.

Question 2

If $p \parallel q$, find the value of x .

- A. 124
- B. 56
- C. 31
- D. -3

The answer is C.

Question 3

What is the slope of any line parallel to \overleftrightarrow{XY} for $X(-4, 3)$ and $Y(5, 6)$?

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

The answer is B.

Question 4

Find x so that $\ell \parallel m$.

- A. 8
- B. 55
- C. $13\frac{5}{6}$
- D. $78\frac{1}{3}$

The answer is A.

Round 3

Question 1

The rooflines of the garage q and the house p are parallel. What are x and y ?

- A. $x = 5, y = 7$
- B. $x = 27, y = 153$
- C. $x = 18.3, y = 11.8$
- D. $x = 5, y = 27$

The answer is A.

MINDJOGGER VIDEOQUIZ 3

CHAPTER 3 • Parallel and Perpendicular Lines (con't)

Question 2

A wheelchair ramp has a grade of 5%. What is the slope going up the ramp?

- A. $\frac{5}{20}$
- B. $\frac{1}{20}$
- C. $\frac{1}{25}$
- D. $-\frac{1}{5}$

The answer is B.

Question 3

Eric's Internet plan charges \$14.99 per month and \$0.04 per minute of airtime. Which equation represents the cost of Eric's plan?

- A. $C = 14.99(0.04)t$
- B. $C = 14.99t + 0.04$
- C. $C = 0.04t + 14.99$
- D. $C = 4t + 14.99$

The answer is C.

Question 4

On a map, Main Street can be represented by the equation $y = \frac{1}{2}x - 3$.

If the airport is at the coordinates $(2, 3)$, what is the shortest distance from Main Street to the airport?

- A. $\sqrt{8}$
- B. $\sqrt{52}$
- C. $\sqrt{20}$
- D. 5

The answer is A.

MINDJOGGER VIDEOQUIZ 4

CHAPTER 4 • Congruent Triangles

Round 1

Question 1

Which term classifies the triangle shown by its angles?

- A. acute
- B. obtuse
- C. right
- D. equiangular

The answer is A.

Question 2

In the figure shown, what is the measure of $\angle C$?

- A. 80
- B. 70
- C. 50
- D. 30

The answer is D.

Question 3

Which congruence statement is correct for the triangles shown?

- A. $\triangle OMN \cong \triangle PQR$
- B. $\triangle NMO \cong \triangle QRP$
- C. $\triangle NOM \cong \triangle PQR$
- D. $\triangle ONM \cong \triangle RPQ$

The answer is C.

Question 4

Which postulate can be used to prove that the triangles are congruent?

- A. ASA
- B. SAS
- C. SSS
- D. not possible

The answer is D.

Question 5

Which pair of triangles is congruent?

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

The answer is B.

Round 2

Question 1

Triangle MNP is shown. What is x ?

- A. 24
- B. 63
- C. 93
- D. 117

The answer is B.

MINDJOGGER VIDEOQUIZ 4

CHAPTER 4 • Congruent Triangles (con't)

Question 2

Given $\triangle EFG \cong \triangle HIJ$, $m\angle G = 62$, $m\angle H = 71$, and $m\angle F = 5x - 3$, find x .

- A. 10
- B. 13
- C. 14.8
- D. 47

The answer is A.

Question 3

Given that $\angle 2 \cong \angle 5$ and $\overline{XW} \cong \overline{XY}$, which method could be used to prove that $\triangle VXW \cong \triangle ZXY$?

- A. SAS
- B. ASA
- C. AAS
- D. SSS

The answer is B.

Question 4

What is the value of x in the triangle shown?

- A. 44
- B. 46
- C. 88
- D. 134

The answer is C.

Round 3

Question 1

Triangle FGH is isosceles with $\angle G$ as the vertex angle. Find the measure of the base of the triangle.

- A. 6
- B. 8
- C. 9
- D. 22

The answer is C.

Question 2

Mai-Lin bought a clock shaped like a right triangle. If the measure of one angle is 57, what is the measure of the other acute angle?

- A. 33
- B. 43
- C. 57
- D. 123

The answer is A.

MINDJOGGER VIDEOQUIZ 4

CHAPTER 4 • Congruent Triangles (con't)

Question 3

Triangle DEF is an equilateral triangle. What are the coordinates of vertex E ?

- A. (a, b)
- B. $(\frac{1}{2}a, a)$
- C. (a, a)
- D. $(\frac{1}{2}a, b)$

The answer is D.

Question 4

Triangle PQR is isosceles with base \overline{QR} . What is the measure of each angle of the triangle?

- A. $m\angle P = 140, m\angle Q = 20, m\angle R = 20$
- B. $m\angle P = 150, m\angle Q = 15, m\angle R = 15$
- C. $m\angle P = 100, m\angle Q = 40, m\angle R = 40$
- D. $m\angle P = 46, m\angle Q = 67, m\angle R = 67$

The answer is D.

MINDJOGGER VIDEOQUIZ 5

CHAPTER 5 • Relationships in Triangles

Round 1

Question 1

In which triangle is \overline{RX} the angle bisector of $\triangle QRS$?

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

The answer is C.

Question 2

Which assumption would you make to start an indirect proof of $\overline{BC} \cong \overline{XY}$?

- A. $\overline{BC} = \overline{XY}$
- B. $\overline{BC} \not\cong \overline{XY}$
- C. $\overline{BC} \geq \overline{XY}$
- D. $\overline{BC} \neq \overline{XY}$

The answer is B.

Question 3

Given $\triangle XYZ$, which statement is true?

- A. $m\angle 3 > m\angle 1$
- B. $m\angle 4 > m\angle 1$
- C. $m\angle 1 > m\angle 3$
- D. $m\angle 2 > m\angle 1$

The answer is C.

Question 4

Which theorem justifies that a triangle could have side lengths of 4, 5, and 6 units?

- A. Triangle Inequality Theorem
- B. Circumcenter Theorem
- C. Centroid Theorem
- D. Exterior Angle Inequality Theorem

The answer is A.

Question 5

For the given figure, which statement is false?

- A. $m\angle RTG > m\angle NTR$
- B. $\triangle TRG \cong \triangle TRN$
- C. $RG > NR$
- D. $\overline{TN} \cong \overline{TG}$

The answer is B.

Round 2

Question 1

Suppose \overline{KP} is a median of $\triangle KMN$. If $NP = 3x + 7$ and $MP = 5x - 3$, what is NM ?

- A. 44
- B. 22
- C. 10
- D. 5

The answer is A.

MINDJOGGER VIDEOQUIZ 5

CHAPTER 5 • Relationships in Triangles (con't)

Question 2

Which inequality describes the possible values of x ?

- A. $-3 < x < 21$
- B. $x > -3$
- C. $-21 < x < -3$
- D. $-3 > x > -21$

The answer is A.

Question 3

Which side of $\triangle JNM$ is the longest?

- A. \overline{JM}
- B. \overline{MN}
- C. \overline{JN}
- D. \overline{MK}

The answer is C.

Question 4

Which assumption would you make to start an indirect proof?

Given: $\triangle RSQ \cong \triangle TSQ$
Prove: \overline{SQ} is a median.

- A. $\triangle RSQ \cong \triangle TSQ$
- B. $\triangle RSQ \cong \triangle TSQ$
- C. \overline{SQ} is a median.
- D. \overline{SQ} is not a median.

The answer is D.

Round 3

Question 1

Which triangle shows an angle bisector that is also an altitude?

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

The answer is C.

Question 2

Two pieces of wood are 18 inches and 25 inches. Between which two lengths must the third piece of wood fall in order to form a triangle?

- A. 6 in. and 44 in.
- B. 7 in. and 43 in.
- C. 1 in. and 43 in.
- D. 19 in. and 24 in.

The answer is B.

MINDJOGGER VIDEOQUIZ 5

CHAPTER 5 • Relationships in Triangles (con't)

Question 3

Which segment is the longest segment in the figure?

- A. \overline{VX}
- B. \overline{VW}
- C. \overline{XZ}
- D. \overline{ZY}

The answer is B.

Question 4

Which set of points cannot be the vertices of a triangle?

- A. $X(-3, 2)$, $Y(-1, -1)$, $Z(-4, 1)$
- B. $U(-1, 0)$, $V(2, -2)$, $W(1, 4)$
- C. $R(3, -3)$, $S(-1, -3)$, $T(1, -4)$
- D. $N(1, 1)$, $P(-3, -1)$, $Q(3, 2)$

The answer is D.

MINDJOGGER VIDEOQUIZ 6

CHAPTER 6 • Proportions and Similarity

Round 1

Question 1

Which expression is the cross product for

$$\frac{4x}{5} = \frac{7x}{3} ?$$

- A. $4x(5) = 7x(3)$
- B. $4x(3) = 5(7x)$
- C. $4x(7x) = 5(3)$
- D. $4x = 5(7x)(3)$

The answer is B.

Question 2

If polygon $JKLMN$ is similar to polygon $PQRST$, what is the scale factor?

- A. $\frac{x}{y+5}$
- B. $\frac{x}{7}$
- C. $\frac{1}{2}$
- D. $\frac{1}{3}$

The answer is D.

Question 3

Which sentence relates the two similar triangles?

- A. $\triangle TZE \sim \triangle GNK$
- B. $\triangle ZET \sim \triangle NGK$
- C. $\triangle TEZ \sim \triangle GNK$
- D. $\triangle EZT \sim \triangle NKG$

The answer is A.

Question 4

If two triangles are similar, then the measures of which corresponding segments are proportional to the measures of the corresponding sides?

- A. altitudes
- B. angle bisectors
- C. medians
- D. all of the above

The answer is D.

Question 5

Which sentence describes a fractal?

- A. A fractal is a geometric figure created using iteration.
- B. A fractal has a finite structure.
- C. Fractals are produced only in geometric figures.
- D. Fractals are made up of non-similar shapes.

The answer is A.

MINDJOGGER VIDEOQUIZ 6

CHAPTER 6 • Proportions and Similarity (con't)

Round 2

Question 1

What is the solution

$$\text{of } \frac{4t-3}{6} = \frac{t}{3} ?$$

- A. 0.5
- B. 0.75
- C. 0.9
- D. 1.5

The answer is D.

Question 2

Quadrilateral $KLMN$ is similar to quadrilateral $PQRS$. What is the length of \overline{QR} ?

- A. 30
- B. 39.375
- C. 6
- D. 42

The answer is B.

Question 3

Refer to the drawing. How tall is the tree?

- A. $13\frac{1}{3}$ ft
- B. $19\frac{1}{3}$ ft
- C. 30 ft
- D. $43\frac{1}{2}$ ft

The answer is B.

Question 4

If $\triangle EFG \sim \triangle HIJ$, what is the perimeter of $\triangle HIJ$?

- A. 38.2 units
- B. 49 units
- C. 56.7 units
- D. 76.5 units

The answer is C.

Round 3

Question 1

The brace of a ladder is attached as shown. What is the distance between the feet of the open ladder if the length of the brace is 3 feet?

- A. 3 ft
- B. 5.3 ft
- C. 6 ft
- D. 9 ft

The answer is C.

Question 2

In $\triangle RST$, $\overline{QY} \parallel \overline{ST}$ and \overline{RK} is an angle bisector. If $RS = 12$, find RJ .

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

The answer is D.

MINDJOGGER VIDEOQUIZ 6

CHAPTER 6 • Proportions and Similarity (con't)

Question 3

A party-planning guide recommends preparing 125 appetizers for 25 guests. If Jamal is organizing a party for 14 people, how many appetizers should he prepare?

- A. 70
- B. 65
- C. 56
- D. 5

The answer is A.

Question 4

What is the length of Main Street between Elm and Tussic?

- A. 33
- B. 20.8
- C. 14.7
- D. 12

The answer is A.

MINDJOGGER VIDEOQUIZ 7

CHAPTER 7 • Right Triangles and Trigonometry

Round 1

Question 1

What is the geometric mean between 4 and 7?

- A. 5.5
- B. 5.29
- C. 3.32
- D. 4

The answer is B.

Question 2

In a 30°-60°-90° triangle, the length of the longer leg is

- A. twice the length of the shorter leg.
- B. $\sqrt{3}$ times the length of the shorter leg.
- C. $\sqrt{2}$ times the length of the shorter leg.
- D. half the length of the hypotenuse.

The answer is B.

Question 3

Triangle LMQ is shown. What is $\tan M$?

- A. $\frac{15}{8}$
- B. $\frac{8}{17}$
- C. $\frac{8}{15}$
- D. $\frac{15}{17}$

The answer is C.

Question 4

Complete the proportion

$$\frac{\sin G}{?} = \frac{?}{t}$$

- A. $\frac{\sin G}{m\angle G} = \frac{\sin t}{t}$
- B. $\frac{\sin G}{n} = \frac{\sin N}{t}$
- C. $\frac{\sin G}{g} = \frac{\cos T}{t}$
- D. $\frac{\sin G}{g} = \frac{\sin T}{t}$

The answer is D.

Question 5

Which triangle could you use the Law of Cosines to solve for x ?

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

The answer is A.

Round 1

Question 1

Which list of measures are the measures of the sides of a right triangle?

- A. 7, 18, 24
- B. 9, 12, 16
- C. 14, 48, 50
- D. 11, 15, 19

The answer is C.

MINDJOGGER VIDEOQUIZ 7

CHAPTER 7 • Right Triangles and Trigonometry (con't)

Question 2

Find the lengths of the shorter leg and the hypotenuse of the triangle, respectively.

- A. 21, 42
- B. $7\sqrt{6}$, $14\sqrt{6}$
- C. 7, 14
- D. $7\sqrt{3}$, $7\sqrt{6}$

The answer is C.

Question 3

What is the angle of elevation from Franco's line of sight to the top of the float?

- A. 30.9°
- B. 31.0°
- C. 11.3°
- D. 23.0°

The answer is D.

Question 4

In the triangle shown, find t to the nearest tenth.

- A. 11.0
- B. 23.2
- C. 11.4
- D. 67.0

The answer is A.

Round 3

Question 1

Find x and y to the nearest hundredth, respectively.

- A. 10.25, 8.94
- B. 8.94, 7.42
- C. 80, 55
- D. 7.42, 6.71

The answer is B.

Question 2

A 12-foot ladder rests against the side of a building forming a 71° angle with the ground.

To the nearest foot, how far is the bottom of the ladder from the building?

- A. 8 ft
- B. 11 ft
- C. 4 ft
- D. 3 ft

The answer is C.

MINDJOGGER VIDEOQUIZ 7

CHAPTER 7 • Right Triangles and Trigonometry (con't)

Question 3

Kayla is standing on a step stool and sees a toy on the floor. How far away is the toy?

- A. 13.7 ft
- B. 3.6 ft
- C. 15.2 ft
- D. 16.2 ft

The answer is A.

Question 4

A school is installing a fence around the play area. What is the perimeter of the play area?

- A. 824 ft
- B. 736.6 ft
- C. 4790 ft
- D. 214 ft

The answer is A.

MINDJOGGER VIDEOQUIZ 8

CHAPTER 8 • Quadrilaterals

Round 1

Question 1

Which quadrilateral is a parallelogram?

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

The answer is C.

Question 2

Which statement could *not* be used to prove that a quadrilateral is a parallelogram?

- A. Both pairs of opposite angles are congruent.
- B. Both pairs of opposite sides are congruent.
- C. Diagonals bisect each other.
- D. A pair of opposite sides is congruent, and the other pair of opposite sides is parallel.

The answer is D.

Question 3

In rectangle $WXYZ$, $m\angle 1 = 68$. Which statement is false?

- A. $m\angle 3 + m\angle 4 = 90$
- B. $\overline{WY} \cong \overline{XZ}$
- C. $m\angle 2 = 68$
- D. $m\angle 5 = m\angle 1$

The answer is C.

Question 4

Which figure always has perpendicular diagonals?

- A. quadrilateral
- B. rhombus
- C. parallelogram
- D. rectangle

The answer is B.

Question 5

In an isosceles trapezoid, which of the following are *not* congruent?

- A. bases
- B. base angles
- C. legs
- D. diagonals

The answer is A.

Round 2

Question 1

Which values of x and y make the figure a parallelogram?

- A. $x = 16, y = 4.5$
- B. $x = 12, y = 18$
- C. $x = 13.9, y = 8.9$
- D. $x = 19.1, y = 10.6$

The answer is A.

MINDJOGGER VIDEOQUIZ 8

CHAPTER 8 • Quadrilaterals (con't)

Question 2

Quadrilateral $EFGH$ is a rectangle. If $EG = 36$ and $FH = 7x - 13$, what are x and y ?

- A. $x = 8.4, y = 3.3$
- B. $x = 7, y = 8$
- C. $x = 42, y = 2.6$
- D. $x = 7, y = 29$

The answer is B.

Question 3

The measure of an exterior angle of a regular polygon is 7.2. How many sides are in the polygon?

- A. 27
- B. 50
- C. 48
- D. 36

The answer is B.

Question 4

What are the coordinates of L and K if $KLMN$ is an isosceles trapezoid?

- A. $K(b - a, 0), L(0, 0)$
- B. $K(a, 0), L(0, c)$
- C. $K(a, b), L(c, 0)$
- D. $K(0, a), L(a + b, 0)$

The answer is B.

Round 3

Question 1

Joey wants this design painted on a table. If $WXYZ$ and $STUV$ are parallelograms, what is $m\angle VUY$?

- A. 18
- B. 33
- C. 56
- D. 124

The answer is B.

Question 2

A carpenter was given this diagram to construct a box. If $m\angle S$ is 55, find $m\angle Q, m\angle R$, and $m\angle T$, respectively.

- A. 150, 110, 100
- B. 45, 50, 30
- C. 85, 100, 60
- D. 105, 125, 75

The answer is D.

MINDJOGGER VIDEOQUIZ 8

CHAPTER 8 • Quadrilaterals (con't)

Question 3

Which term best describes the parallelogram with vertices $W(1, 6)$, $X(4, 1)$, $Y(-1, -2)$, and $Z(-4, 3)$?

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

The answer is D.

Question 4

A swing set frame forms an isosceles trapezoid with the ground. Find the measure of angles 1, 2, and 3, respectively.

- A. 59, 62, 59
- B. 31, 118, 59
- C. 59, 28, 31
- D. 84, 62, 59

The answer is A.

MINDJOGGER VIDEOQUIZ 9

CHAPTER 9 • Transformations

Round 1

Question 1

Which transformation shows a rotation?

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

The answer is D.

Question 2

Which figure has four lines of symmetry?

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

The answer is C.

Question 3

Which transformation does not result in an isometry?

- A. rotation
- B. translation
- C. dilation
- D. reflection

The answer is C.

Question 4

What is the component form of $-2\vec{w}$, if $\vec{w} = \langle 5, -2 \rangle$? \rightarrow

- A. $\langle 3, -4 \rangle$
- B. $\langle -3, 4 \rangle$
- C. $\langle -10, 4 \rangle$
- D. $\langle 10, -4 \rangle$

The answer is C.

Question 5

Which reflection matrix is used for a reflection in the y -axis?

A. $\begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix}$

B. $\begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix}$

C. $\begin{bmatrix} -1 & 0 \\ 0 & -1 \end{bmatrix}$

D. $\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$

The answer is B.

MINDJOGGER VIDEOQUIZ 9

CHAPTER 9 • Transformations (con't)

Round 2

Question 1

What is the resultant if $\vec{m} = \langle 6, -2 \rangle$ and

$\vec{n} = \langle 3, 4 \rangle$?

- A. $\langle 18, -8 \rangle$
- B. $\langle 9, 2 \rangle$
- C. $\langle 3, -6 \rangle$
- D. $\langle 9, 6 \rangle$

The answer is B.

Question 2

Suppose \overline{TR} is translated 4 units right and 3 units up on a coordinate plane. If T is at $(-6, 2)$ and R is at $(-3, -5)$, find the coordinates of the image.

- A. $T'(-2, 5)$, $R'(1, -2)$
- B. $T'(-10, 5)$, $R'(-7, -2)$
- C. $T'(-3, 6)$, $R'(0, -1)$
- D. $T'(-9, -2)$, $R'(-6, -9)$

The answer is A.

Question 3

In each figure, $\ell \parallel m$. Which green figure is a translation image of the blue figure?

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

The answer is B.

Question 4

What is the scale factor of the preimage $ABCD$ with center P ?

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

The answer is A.

Round 3

Question 1

Describe the reflection on a coordinate plane if the vertices of $\triangle XYZ$ are $X(1, 3)$, $Y(-4, -2)$, and $Z(-3, 3)$ and the vertices of $\triangle X'Y'Z'$ are $X'(3, 1)$, $Y'(-2, -4)$, and $Z'(3, -3)$.

- A. reflected in the line $y = x$
- B. reflected in the x -axis
- C. reflected in the y -axis
- D. reflected in the line $y = -x$

The answer is A.

MINDJOGGER VIDEOQUIZ 9

CHAPTER 9 • Transformations (con't)

Question 2

What is the measure of the angle of rotation of the minute hand on a clock from 10:20 A.M. to 10:55 A.M.?

- A. 17.5°
- B. 35°
- C. 150°
- D. 210°

The answer is D.

Question 3

Which regular polygon will tessellate the plane?

- A. dodecagon
- B. decagon
- C. octagon
- D. hexagon

The answer is D.

Question 4

Given $M(1, 3)$ and $N(-5, 4)$, find the magnitude and direction of \overrightarrow{MN} .

- A. 6.1 units, 170.5°
- B. 8.1 units, 99.5°
- C. 37 units, 119.7°
- D. 5.9 units, 166.0°

The answer is A.

MINDJOGGER VIDEOQUIZ 10

CHAPTER 10 • Circles

Round 1

Question 1

Which segment is a diameter of $\odot N$?

- A. \overline{QN}
- B. \overline{FH}
- C. \overline{TW}
- D. \overline{NW}

The answer is C.

Question 2

In $\odot A$ with diameter \overline{WY} , which arc is a major arc?

- A. \widehat{XY}
- B. \widehat{WVY}
- C. \widehat{XWY}
- D. \widehat{VWX}

The answer is C.

Question 3

Which statement is false?

- A. If $\overline{FG} \cong \overline{HI}$, then $\widehat{FG} \cong \widehat{HI}$.
- B. If $\overline{FG} \cong \overline{HI}$, then \overline{FG} and \overline{HI} are equidistant from J .
- C. If $\widehat{FG} \cong \widehat{HI}$ then $m\angle GJF = m\angle HJI$.
- D. $\triangle JGF$ is an inscribed triangle.

The answer is D.

Question 4

Which of the following is a secant of the circle?

- A. \overleftrightarrow{ZY}
- B. \overline{EM}
- C. \overleftrightarrow{YP}
- D. \overline{ZY}

The answer is A.

Question 5

What are the coordinates of the center and the measure of the radius for a circle with the equation

$$\left(x - \frac{2}{3}\right)^2 + (y + 5)^2 = 16?$$

- A. $\left(\frac{2}{3}, -5\right); 4$
- B. $\left(-\frac{2}{3}, 5\right); 4$
- C. $\left(\frac{2}{3}, 5\right); 8$
- D. $\left(\frac{4}{9}, 25\right); 4$

The answer is A.

MINDJOGGER VIDEOQUIZ 10

CHAPTER 10 • Circles (con't)

Round 2

Question 1

What is the circumference of $\odot P$?

- A. 13π
- B. $\frac{13}{2}\pi$
- C. 26π
- D. 30π

The answer is A.

Question 2

What is x in the circle shown?

- A. $26\frac{1}{2}$
- B. $9\frac{1}{8}$
- C. $30\frac{1}{2}$
- D. $5\frac{1}{8}$

The answer is C.

Question 3

What is the measure of \overline{PR} ?

- A. 2
- B. 13
- C. 26
- D. 52

The answer is B.

Question 4

In the circle shown, what is x ?

- A. 12.0
- B. 18.75
- C. 22.8
- D. 44.5

The answer is B.

Round 3

Question 1

In the circle, what is $m\angle R$?

- A. 15
- B. 18
- C. 28
- D. 32

The answer is D.

Question 2

What is the value of x to the nearest tenth?

- A. 7.0
- B. 9.8
- C. 14.8
- D. 28.8

The answer is B.

MINDJOGGER VIDEOQUIZ 10

CHAPTER 10 • Circles (con't)

Question 3

Students were surveyed about their favorite flavors of ice cream. On the circle graph, what is the measure of the central angle for chocolate?

- A. 20°
- B. 72°
- C. 83°
- D. 180°

The answer is B.

Question 4

Mr. Chen wants to build a small ice skating rink. Refer to the diagram. What is the equation of the circle?

- A. $(x - 3)^2 + (y + 2)^2 = 29$
- B. $(x - 3)^2 + (y + 2)^2 = \sqrt{29}$
- C. $(x + 3)^2 + (y - 2)^2 = 7$
- D. $(x - 1)^2 + (y - 3)^2 = 29$

The answer is A.

MINDJOGGER VIDEOQUIZ 11

CHAPTER 11 • Areas of Polygons and Circles

Round 1

Question 1

Which formula is the formula for the area of a trapezoid?

- A. $A = \frac{1}{2}bh$
- B. $A = \frac{1}{2}(b_1 + b_2)$
- C. $A = \frac{1}{2}h(b_1 + b_2)$
- D. $A = h(b_1 + b_2)$

The answer is C.

Question 2

Which segment is an apothem of the regular polygon?

- A. \overline{JF}
- B. \overline{KL}
- C. \overline{IK}
- D. \overline{FH}

The answer is B.

Question 3

Which diagram shows an irregular figure?

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

The answer is A.

Question 4

Which diagram is shaded to show a sector of a circle?

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

The answer is D.

Question 5

What is the area of the parallelogram?

- A. 12 in^2
- B. 16 in^2
- C. 24 in^2
- D. 48 in^2

The answer is B.

Round 2

Question 1

What is the area of the shaded region?

- A. 800π
- B. 300π
- C. 1200π
- D. 600π

The answer is A.

MINDJOGGER VIDEOQUIZ 11

CHAPTER 11 • Areas of Polygons and Circles (con't)

Question 2

What is the area of the parallelogram?

- A. $8\sqrt{2}$ m²
- B. 48 m²
- C. $56\sqrt{3}$ m²
- D. $64\sqrt{3}$ m²

The answer is D.

Question 3

What is the area of the rhombus?

- A. $486\sqrt{3}$ in²
- B. $324\sqrt{3}$ in²
- C. $162\sqrt{3}$ in²
- D. $81\sqrt{3}$ in²

The answer is C.

Question 4

Find the area of the blue sector.

- A. 5.4π cm²
- B. 21.7π cm²
- C. 5.8π cm²
- D. 4.3π cm²

The answer is A.

Round 3

Question 1

Mrs. Soto wants both sides of a 6-foot high fence painted. How many square feet of fencing will be painted?

- A. 972 ft²
- B. 1248 ft²
- C. 1944 ft²
- D. 2668 ft²

The answer is C.

Question 2

Luna placed a planter with a square base on a circular plant stand. What is the area of the region that is outside the planter and inside the stand?

- A. $36\pi - 36$ cm²
- B. $36\pi - 72$ cm²
- C. $144\pi - 144$ cm²
- D. $36\pi - 18$ cm²

The answer is B.

MINDJOGGER VIDEOQUIZ 11

CHAPTER 11 • Areas of Polygons and Circles (con't)

Question 3

Saundra and Jessie are playing a board game. The spinner used to play the game is shown. What is the probability that Saundra will spin yellow?

- A. $\frac{5}{18}$
- B. $\frac{1}{6}$
- C. $\frac{1}{9}$
- D. $\frac{5}{72}$

The answer is A.

Question 4

What is the area of the deck surrounding the pool?

- A. 265.1 ft²
- B. 316.7 ft²
- C. 290.3 ft²
- D. 530.3 ft²

The answer is C.

MINDJOGGER VIDEOQUIZ 12

CHAPTER 12 • Surface Area

Round 1

Question 1

Suppose the square prism shown is sliced by a plane parallel to two of the lateral faces. Which term describes the shape of the cross section?

- A. square
- B. rectangle
- C. triangle
- D. point

The answer is B.

Question 2

Which segment is *not* a lateral edge of the prism?

- A. \overline{MN}
- B. \overline{PN}
- C. \overline{SR}
- D. \overline{LP}

The answer is B.

Question 3

Which figure is an oblique cone?

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

The answer is D.

Question 4

A plane can intersect a sphere in any of the following ways *except* _____.

- A. a hemisphere
- B. a circle
- C. a great circle
- D. a point

The answer is A.

Question 5

Which net can be folded into a triangular pyramid?

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

The answer is C.

Round 2

Question 1

What is the surface area of the sphere?

- A. 187.5 cm²
- B. 314.2 cm²
- C. 197.4 cm²
- D. 204.9 cm²

The answer is B.

MINDJOGGER VIDEOQUIZ 12

CHAPTER 12 • Surface Area (con't)

Question 2

What is the lateral area of the cylinder?

- A. 263.9 cm²
- B. 490.1 cm²
- C. 527.8 cm²
- D. 286.9 cm²

The answer is A.

Question 3

What is the surface area of the triangular prism shown?

- A. 144 cm²
- B. 159.6 cm²
- C. 175.2 cm²
- D. 180 cm²

The answer is C.

Question 4

The sides of the base of a square pyramid are 20 inches long and the height is 16 inches.

What is the surface area of the pyramid?

- A. 1154.7 in²
- B. 1040 in²
- C. 754.7 in²
- D. 640 in²

The answer is A.

Round 3

Question 1

Suppose the tepee is a right cone. How much canvas covers the tepee?

- A. 603.2 ft²
- B. 1206.4 ft²
- C. 804.2 ft²
- D. 2411.5 ft²

The answer is B.

Question 2

How much paper is needed to make a label for the can?

- A. 36 in²
- B. 66 in²
- C. 99 in²
- D. 132 in²

The answer is B.

MINDJOGGER VIDEOQUIZ 12

CHAPTER 12 • Surface Area (con't)

Question 3

A wood storage bin needs to be painted. What is the surface area of the bin?

- A. 125.5 yd²
- B. 165 yd²
- C. 185 yd²
- D. 140 yd²

The answer is C.

Question 4

How much will it cost to wrap the box if wrapping paper costs \$1.15 per square foot?

- A. \$30.09
- B. \$2.73
- C. \$3.48
- D. \$3.11

The answer is D.

MINDJOGGER VIDEOQUIZ 13

CHAPTER 13 • Volume

Round 1

Question 1

Which formula can be used to find the volume of the figure shown?

- A. $V = Bh$
- B. $V = \frac{4}{3}\pi r^3$
- C. $V = \frac{1}{3}\pi r^2 h$
- D. $V = \pi r^2 h$

The answer is C.

Question 2

Which formula is the formula for the volume of a sphere?

- A. $V = \frac{4}{3}\pi r^3$
- B. $V = \frac{1}{3}\pi r^3$
- C. $V = \frac{4}{3}\pi r^2$
- D. $V = \frac{1}{3}\pi r^2$

The answer is A.

Question 3

What is the scale factor of the two similar solids?

- A. 1 : 2
- B. 1 : 3
- C. 1 : 4
- D. 1 : 5

The answer is B.

Question 4

In the rectangular prism shown, which point has coordinates $(-1, 2, 3)$?

- A. point *J*
- B. point *K*
- C. point *M*
- D. point *N*

The answer is D.

Question 5

Which expression gives the volume of the prism?

- A. $5 \times 7 \times 10$
- B. $\frac{1}{2}(5)(7)(10)$
- C. $\frac{1}{3}(5)(7)(10)$
- D. $\frac{1}{2}(5)(8.6)(10)$

The answer is B.

Round 2

Question 1

Which ratio is the ratio of the volumes of the two similar pyramids?

- A. 3 : 1
- B. 9 : 1
- C. 27 : 1
- D. 27 : 3

The answer is C.

MINDJOGGER VIDEOQUIZ 13

CHAPTER 13 • Volume (con't)

Question 2

What is the volume of the pyramid?

- A. 1020 cm³
- B. 1250 cm³
- C. 1530 cm³
- D. 3060 cm³

The answer is A.

Question 3

Find the distance between $M(7, 2, -5)$ and $N(3, -1, 5)$.

- A. $\sqrt{35}$
- B. $7\sqrt{2}$
- C. $5\sqrt{5}$
- D. $\sqrt{209}$

The answer is C.

Question 4

What is the approximate volume of the cylinder?

- A. 410.5 ft³
- B. 417.4 ft³
- C. 420.6 ft³
- D. 450.0 ft³

The answer is B.

Round 3

Question 1

A softball has a diameter of about 4 inches. What is the approximate volume of a softball?

- A. 35.6 in³
- B. 33.5 in³
- C. 20.4 in³
- D. 8.4 in³

The answer is B.

Question 2

A waffle ice cream cone has a height of 5 inches and a diameter of 1.5 inches. What is the volume of the cone?

- A. 1.5 in³
- B. 2.4 in³
- C. 2.9 in³
- D. 3.2 in³

The answer is C.

MINDJOGGER VIDEOQUIZ 13

CHAPTER 13 • Volume (con't)

Question 3

A fish tank has a base that is a regular hexagon with sides 8 inches long, and a height of 20 inches. How much water will the tank hold?

- A. 3325.5 in³
- B. 3840 in³
- C. 1920 in³
- D. 1662.8 in³

The answer is A.

Question 4

An assembled 3-D puzzle of a castle measures 1.5 yards by 1.25 yards by 1 yard. If the scale factor is 1:80, what are the actual dimensions of the castle?

- A. 240 yd × 200 yd × 160 yd
- B. 225 yd × 80 yd × 120 yd
- C. 140 yd × 120 yd × 80 yd
- D. 120 yd × 100 yd × 80 yd

The answer is D.

**Glencoe
MindJogger Videoquiz
Scoring Sheet**

Chapter _____ **Names** _____
Date _____
Period _____

Round 1

Question 1 _____
Question 2 _____
Question 3 _____
Question 4 _____
Question 5 _____ **Total Points** _____

Round 2

Question 1 _____
Question 2 _____
Question 3 _____
Question 4 _____ **Total Points** _____

Round 3

Question 1 _____
Question 2 _____
Question 3 _____
Question 4 _____ **Total Points** _____

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** _____

Round 2

Question 1 _____
Question 2 _____
Question 3 _____
Question 4 _____ **Total Points** _____

Round 3

Question 1 _____
Question 2 _____
Question 3 _____
Question 4 _____ **Total Points** _____

Total points from all three rounds _____

A

B

C

D



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