Released Test Questions



Which of the following best describes deductive reasoning?

- A using logic to draw conclusions based on accepted statements
- **B** accepting the meaning of a term without definition
- **C** defining mathematical terms to correspond with physical objects
- **D** inferring a general truth by examining a number of specific examples

CSG00185





Which of the following conclusions does *not* have to be true?

- A $\angle 3$ and $\angle 4$ are supplementary angles.
- **B** Line *l* is parallel to line *m*.
- C $\angle 1 \cong \angle 3$
- **D** $\angle 2 \cong \angle 3$

CSG10066

3 Consider the arguments below.

- I. Every multiple of 4 is even. 376 is a multiple of 4. Therefore, 376 is even.
- II. A number can be written as a repeating decimal if it is rational. Pi cannot be written as a repeating decimal. Therefore, pi is not rational.

Which one(s), if any, use deductive reasoning?

- A I only
- **B** II only
- C both I and II
- **D** neither I nor II

CSG00552

4 Theorem: A triangle has at most one obtuse angle.

Eduardo is proving the theorem above by contradiction. He began by assuming that in $\triangle ABC$, $\angle A$ and $\angle B$ are both obtuse. Which theorem will Eduardo use to reach a contradiction?

- A If two angles of a triangle are equal, the sides opposite the angles are equal.
- **B** If two supplementary angles are equal, the angles each measure 90° .
- **C** The largest angle in a triangle is opposite the longest side.
- **D** The sum of the measures of the angles of a triangle is 180°.

5

Use the proof to answer the question below.

Given: $\overline{AB} \cong \overline{BC}$; *D* is the midpoint of \overline{AC} Prove: $\triangle ABD \cong \triangle CBD$



Statement Reason $\overline{AB} \cong \overline{BC}$; *D* is the midpoint of \overline{AC} 1. 1. Given $\overline{AD} \cong \overline{CD}$ 2. 2. **Definition of Midpoint** $\overline{BD}\cong\overline{BD}$ 3. 3. **Reflexive Property** ? 4. $\triangle ABD \cong \triangle CBD$ 4.

What reason can be used to prove that the triangles are congruent?

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

CSG10068

- 7 -

6





If we assume that $m \angle A = m \angle C$, it follows that AB = BC. This contradicts the given statement that AB > BC. What conclusion can be drawn from this contradiction?

- Α $m \angle A = m \angle B$
- B $m \angle A \neq m \angle B$
- $m \angle A = m \angle C$ С
- D $m \angle A \neq m \angle C$

CSG00524

8

7

Geometry

Use the proof to answer the question below.

Given: $\angle 2 \cong \angle 3$

Prove: $\angle 1 \cong \angle 4$



Statement

- 1. $\angle 2 \cong \angle 3$
- 2. $\angle 1 \cong \angle 2; \angle 3 \cong \angle 4$
- 3. ∠1≅∠4

What reason can be used to justify statement 2?

- A Complements of congruent angles are congruent.
- **B** Vertical angles are congruent.
- C Supplements of congruent angles are congruent.
- **D** Corresponding angles are congruent.

CSG10069

9 -

1. Given

Reason

2. ?

3. Transitive Property

Released Test Questions

8

"Two lines in a plane always intersect in exactly one point."

Which of the following best describes a *counterexample* to the assertion above?

- A coplanar lines
- **B** parallel lines
- C perpendicular lines
- **D** intersecting lines

CSG00320

9 Which figure can serve as a counterexample to the conjecture below?

If one pair of opposite sides of a quadrilateral is parallel, then the quadrilateral is a parallelogram.

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

CSG10194

10 Given: TRAP is an isosceles trapezoid with diagonals \overline{RP} and \overline{TA} . Which of the following *must* be true?

- A $RP \perp TA$
- **B** $\overline{RP} \parallel \overline{TA}$
- **C** $\overline{RP} \cong \overline{TA}$
- **D** \overline{RP} bisects \overline{TA}

CSG00260

11 A

B

A conditional statement is shown below.

If a quadrilateral has perpendicular diagonals, then it is a rhombus.

Which of the following is a counterexample to the statement above?







Geometry

12 Students in a class rewrote theorems in their own words. One student wrote the following statement.

The area of a parallelogram is the product of any base (*b*) and any height (*h*).

Which figure shows a counterexample to prove the statement *false*?











CSG10102

13 Which triangles must be similar?

- A two obtuse triangles
- **B** two scalene triangles with congruent bases
- **C** two right triangles
- **D** two isosceles triangles with congruent vertex angles

CSG00578

14 Which of the following facts would be sufficient to prove that triangles *ABC* and *DBE* are similar?



- A *CE* and *BE* are congruent.
- **B** $\angle ACE$ is a right angle.
- **C** \overline{AC} and \overline{DE} are parallel.
- **D** $\angle A$ and $\angle B$ are congruent.

Released Test Questions



Parallelogram ABCD is shown below.



Which pair of triangles can be established to be congruent to prove that $\angle DAB \cong \angle BCD$?

- **A** $\triangle ADC$ and $\triangle BCD$
- **B** $\triangle AED$ and $\triangle BEC$
- **C** $\triangle DAB$ and $\triangle BCD$
- **D** $\triangle DEC$ and $\triangle BEA$

16 If $\triangle ABC$ and $\triangle XYZ$ are two triangles such that $\frac{AB}{XY} = \frac{BC}{YZ}$, which of the following would be sufficient to prove the triangles are similar?

- $\mathbf{A} \qquad \angle A \cong \angle X$
- **B** $\angle B \cong \angle Y$
- **C** $\angle C \cong \angle Z$
- **D** $\angle X \cong \angle Y$

CSG10218

CSG10146

17 In parallelogram *FGHI*, diagonals *IG* and *FH* are drawn and intersect at point *M*. Which of the following statements *must* be true?

- A $\triangle FGI$ must be an obtuse triangle.
- **B** \triangle *HIG* must be an acute triangle.
- **C** $\triangle FMG$ must be congruent to $\triangle HMG$.
- **D** $\triangle GMH$ must be congruent to $\triangle IMF$.

CSG00559

18 Which of the following *best* describes the triangles shown below?



- A both similar and congruent
- **B** similar but not congruent
- C congruent but not similar
- **D** neither similar nor congruent

CSG00478

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- 19
- Which of the following statements must be true if $\triangle GHI \sim \triangle JKL$?



- A The two triangles must be scalene.
- **B** The two triangles must have exactly one acute angle.
- C At least one of the sides of the two triangles must be parallel.
- **D** The corresponding sides of the two triangles must be proportional.

CSG20074

20 Which method listed below could *not* be used to prove that two triangles are congruent?

- A Prove all three sets of corresponding sides congruent.
- **B** Prove all three sets of corresponding angles congruent.
- **C** Prove that two sides and an included angle of one triangle are congruent to two sides and an included angle of the other triangle.
- **D** Prove that two angles and an included side of one triangle are congruent to two angles and an included side of the other triangle.

CSG10151

21 In the figure below, $\overline{AC} \cong \overline{DF}$ and $\angle A \cong \angle D$.





Which additional information would be enough to prove that $\triangle ABC \cong \triangle DEF$?

- $\mathbf{A} \qquad \overline{AB} \cong \overline{DE}$
- **B** $\overline{AB} \cong \overline{BC}$
- $\mathbf{C} \qquad \overline{BC} \cong \overline{EF}$
- **D** $\overline{BC} \cong \overline{DE}$



Given: \overline{AB} and \overline{CD} intersect at point *E*; $\angle 1 \cong \angle 2$



Which theorem or postulate can be used to prove $\triangle AED \sim \triangle BEC$?

- A AA
- **B** SSS
- C ASA
- D SAS

CSG10074

23 Given: *E* is the midpoint of \overline{CD} ; $\angle C \cong \angle D$



Which of the following statements *must* be true?

 $A \quad \angle A \cong \angle D$ $B \quad \angle B \cong \angle C$ $C \quad \overline{CE} \cong \overline{BE}$ $D \quad \overline{AC} \cong \overline{BD}$

CSG10078

24 In the figure below, *n* is a whole number. What is the *smallest* possible value for *n*?



- 14 -



- **A** 2, 2, 5
- **B** 3, 3, 5
- **C** 4, 4, 8
- **D** 5, 5, 15

CSG10041

26

In the accompanying diagram, parallel lines l and m are cut by transversal t.



Which statement about angles 1 and 2 *must* be true?

- A $\angle 1 \cong \angle 2$.
- **B** $\angle 1$ is the complement of $\angle 2$.
- C $\angle 1$ is the supplement of $\angle 2$.
- **D** $\angle 1$ and $\angle 2$ are right angles.

CSG00579



What values of *a* and *b* make quadrilateral *MNOP* a parallelogram?



²⁸

Quadrilateral *ABCD* is a parallelogram. If adjacent angles are congruent, which statement must be true?

- A Quadrilateral *ABCD* is a square.
- **B** Quadrilateral *ABCD* is a rhombus.
- **C** Quadrilateral *ABCD* is a rectangle.
- **D** Quadrilateral *ABCD* is an isosceles trapezoid.

Released Test Questions



For the quadrilateral shown below, what is $m\angle a + m\angle c$?



30 If *ABCD* is a parallelogram, what is the length of segment *BD*?



31 The diameter of a circle is 12 meters. If point *P* is in the same plane as the circle, and is 6 meters from the center of the circle, which *best* describes the location of point *P*?

- **A** Point *P* must be on the circle.
- **B** Point *P* must be inside the circle.
- **C** Point *P* may be either outside the circle or on the circle.
- **D** Point *P* may be either inside the circle or on the circle.



Geometry



A right circular cone has radius 5 inches and height 8 inches.



What is the lateral area of the cone? (Lateral area of cone = πrl , where l = slant height)

- A 40π sq in.
- **B** 445 π sq in.
- C $5\pi\sqrt{39}$ sq in.
- **D** $5\pi\sqrt{89}$ sq in.

CSG00053

34 Figure *ABCD* is a kite.



What is the area of figure *ABCD*, in square centimeters?

- **A** 120
- **B** 154
- **C** 168
- **D** 336

CSG20157

35 If a cylindrical barrel measures 22 inches in diameter, how many inches will it roll in 8 revolutions along a smooth surface?

- **A** 121π in.
- **B** 168 π in.
- **C** 176 π in.
- **D** 228 π in.

- 36 A sewing club is making a quilt consisting of 25 squares with each side of the square measuring 30 centimeters. If the quilt has five rows and five columns, what is the perimeter of the quilt?
 - A 150 cm
 - **B** 300 cm
 - **C** 600 cm
 - **D** 900 cm

The minute hand of a clock is 5 inches long. What is the area of the circle, in square inches, created as the hand sweeps an hour?

A 10π

37

- **B** 20π
- **C** 25π
- **D** 100π

CSG10223

CSG20111

38

The four sides of this figure will be folded up and taped to make an open box.

| 5 centimeters | | | | | |
|---------------|--|--|--|--|--|
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What will be the volume of the box?

- A 50 cm^3
- **B** 75 cm^3
- C 100 cm³
- **D** 125 cm^3

CSG00299

- 18 -

Released Test Questions

Geometry

- 39
 - A classroom globe has a diameter of 18 inches.



Which of the following is the approximate surface area, in square inches, of the globe? (Surface Area = $4\pi r^2$)

- 113.0 Α
- 226.1 B
- С 254.3
- D 1017.4

CSG20238

CSG10086

40

Vik is constructing a spherical model of Earth for his science fair project. His model has a radius of 24 inches. Since roughly 75% of Earth's surface is covered by water, he wanted to paint 75% of his model blue to illustrate this fact. Approximately how many square inches on his model will be painted blue? (Surface Area = $4\pi r^2$)

- Α 5426
- R 7235
- С 43,407
- D 57,877

41

The rectangle shown below has length 20 meters and width 10 meters.



If four triangles are removed from the rectangle as shown, what will be the area of the remaining figure?

- 136 m² A
- 144 m² B
- С 168 m²
- D 184 m^2

CSG00012





19



What is the area, in square units, of the trapezoid shown below?



20226

44

The figure below is a square with four congruent parallelograms inside.



What is the area, in square units, of the shaded portion?

- **A** 60
- **B** 84
- **C** 114
- **D** 129

45

What is the area, in square meters (m), of the trapezoid shown below?





What is the area, in square inches (in.), of the triangle below?



CSG20225

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| 47 | What is the area, in square centimeters, of rhombus <i>RSTV</i> if $RT = 16$ cm and SV = 12 cm? | 49 Let rec hig can and ned A B C | ea made two candles in the shape of right ctangular prisms. The first candle is 15 cm gh, 8 cm long, and 8 cm wide. The second ndle is 5 cm higher but has the same length id width. How much additional wax was eded to make the taller candle? 320 cm ³ 640 cm ³ 960 cm ³ | l |
|----|---|--|--|--------|
| | | D | 1280 cm ³ | |
| | | | CSG20116 | |
| | A 40 B 48 C 96 | 50 Tw and me | vo angles of a triangle have measures of 55° d 65°. Which of the following could <i>not</i> be easure of an exterior angle of the triangle? | , a |
| | D 102 | | 115° | |
| | D 172 | | 120° | |
| | 65020144 | | 125 130° | |
| 48 | The perimeters of two squares are in a ratio of 4 to 9. What is the ratio between the areas of the two squares? | | 150 CSG00571 | |
| | $\mathbf{A} 2 \text{ to } 3$ $\mathbf{B} 4 \text{ to } 9$ | 51 Th | ne sum of the interior angles of a polygon is e same as the sum of its exterior angles. Wh pe of polygon is it? | ıat |
| | C 16 to 27 | | quadrilateral | |
| | D 16 to 81 | B | hexagon | |
| | CSG00013 | | octagon | |
| | | D | decagon | |
| | | | CSG00305 | |
| | | | | |
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CALIFORNIA STANDARDS TEST

Geometry

Released Test Questions



– 22 –



- **A** 15°
- **B** 30°
- **C** 45°
- **D** 60°

CSG00039



- **B** 56°
- **C** 64°
- **D** 92°

CSG20179



- **A** 30° **B** 60°
- **C** 120°
- **D** 180°

CSG00570

– 23 –

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Released Test Questions

60

A diagram from a proof of the Pythagorean theorem is pictured below.



Which statement would *not* be used in the proof of the Pythagorean theorem?

- A The area of a triangle equals $\frac{1}{2}ab$.
- **B** The four right triangles are congruent.
- **C** The area of the inner square is equal to half of the area of the larger square.
- **D** The area of the larger square is equal to the sum of the areas of the smaller square and the four congruent triangles.

CSG10192

61 A right triangle's hypotenuse has length 5. If one leg has length 2, what is the length of the other leg?

| Α | 3 | | | |
|---|-------------|--|--|----------|
| В | $\sqrt{21}$ | | | |
| С | $\sqrt{29}$ | | | |
| D | 7 | | | |
| | | | | CSG00566 |

62 A new pipeline is being constructed to re-route its oil flow around the exterior of a national wildlife preserve. The plan showing the old pipeline and the new route is shown below.



About how many extra miles will the oil flow once the new route is established?

- **A** 24
- **B** 68
- **C** 92
- **D** 160



What is the height of this rectangle?



- A 1 unit
- **B** 6 units
- **C** $\sqrt{15}$ units
- **D** $\sqrt{113}$ units

CSG00473

64

Marsha is using a straightedge and compass to do the construction shown below.



Which *best* describes the construction Marsha is doing?

- **A** a line through *P* parallel to line *l*
- **B** a line through *P* intersecting line *l*
- **C** a line through P congruent to line l
- **D** a line through P perpendicular to line l

CSG00526

65 Given: angle A

What is the first step in constructing the angle bisector of angle *A*?



- A Draw ray \overrightarrow{AD} .
- **B** Draw a line segment connecting points *B* and *C*.
- C From points *B* and *C*, draw equal arcs that intersect at *D*.
- **D** From point *A*, draw an arc that intersects the sides of the angle at points *B* and *C*.



Released Test Questions



Scott is constructing a line perpendicular to line *l* from point *P*. Which of the following should be his first step?







CSG00308

67 Which triangle can be constructed using the following steps?

- **1.** Put the tip of the compass on point *A*.
- 2. Open the compass so that the pencil tip is on point *B*.
- 3. Draw an arc above *AB*.
- 4. Without changing the opening, put the metal tip on point *B* and draw an arc intersecting the first arc at point *C*.
- **5.** Draw \overline{AC} and \overline{BC} .



- A right
- **B** obtuse
- C scalene
- **D** equilateral

CSG10135

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Geometry

- 68
- What geometric construction is shown in the diagram below?



- A an angle bisector
- **B** a line parallel to a given line
- **C** an angle congruent to a given angle
- **D** a perpendicular bisector of a segment

CSG20029





Which statement would prove that $\triangle ABC$ is a right triangle?

- A $(\text{slope } \overline{AB})(\text{slope } \overline{BC}) = 1$
- **B** $(\text{slope } \overline{AB})(\text{slope } \overline{BC}) = -1$
- **C** distance from A to B = distance from B to C
- **D** distance from A to B = (distance from *B* to *C*)

Released Test Questions Geometry Figure *ABCO* is a parallelogram. 70 71 What type of triangle is formed by the points A(4,2), B(6,-1), and C(-1,3)? V A right B equilateral С isosceles A(a, b)B(a + c, b)D scalene CSG10235 72 The point (-3, 2) lies on a circle whose equation is $(x+3)^2 + (y+1)^2 = r^2$. Which of the following must be the radius of the circle? ► X C(c, 0)0 3 А $\sqrt{10}$ B С 9 What are the coordinates of the point of 10 D intersection of the diagonals? CSG30048 **A** $\left(\frac{a}{2}, \frac{b}{2}\right)$ $\left(\frac{c}{2},\frac{b}{2}\right)$ B **C** $\left(\frac{a+c}{2}, \frac{b}{2}\right)$ **D** $\left(\frac{a+c}{2}, \frac{a+b}{2}\right)$ CSG20101

- 28 -

Geometry



What is the length of line segment \overline{PQ} shown below?



- A 9 units
- **B** 10 units
- C 13 units
- **D** 14 units

CSG00540





- **A** $\cos x = \frac{12}{13}$ and $\tan x = \frac{5}{12}$
- **B** $\cos x = \frac{12}{13}$ and $\tan x = \frac{12}{5}$
- C $\cos x = \frac{13}{12}$ and $\tan x = \frac{5}{12}$

D
$$\cos x = \frac{13}{12}$$
 and $\tan x = \frac{13}{5}$

CSG00493





What is the length of \overline{AC} ?

- **A** 14.7
- **B** 21.7
- **C** 30
- **D** 32

Released Test Questions



Approximately how many feet tall is the streetlight?



| $\sin 40^{\circ} \approx 0.64$ |
|--------------------------------|
| $\cos 40^{\circ} \approx 0.77$ |
| $\tan 40^\circ \approx 0.84$ |

- **A** 12.8
- **B** 15.4
- C 16.8
- **D** 23.8

CSG20047

77 Right triangle *ABC* is pictured below.



Which equation gives the correct value for BC?

A $\sin 32^\circ = \frac{BC}{8.2}$ B $\cos 32^\circ = \frac{BC}{10.6}$ C $\tan 58^\circ = \frac{8.2}{BC}$ D $\sin 58^\circ = \frac{BC}{10.6}$

CSG10210

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- 30 -

78 A 13-foot ladder is leaning against a brick wall. The top of the ladder touches the wall 12 feet (ft) above the ground. The bottom of the ladder is 5 ft from the bottom of the wall. What is the sine of the angle formed by the ground and the base of the ladder?





CSG10141

79 In the accompanying diagram, $m \angle A = 32^{\circ}$ and AC = 10. Which equation could be used to find $x \text{ in } \triangle ABC$?



A
$$x = 10 \sin 32^{\circ}$$

- **B** $x = 10 \cos 32^\circ$
- C $x = 10 \tan 32^{\circ}$

D
$$x = \frac{10}{\cos 32^{\circ}}$$

CSG00555

— **31** —

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Geometry

80 The diagram shows an 8-foot ladder leaning against a wall. The ladder makes a 53° angle with the wall. Which is closest to the distance up the wall the ladder reaches?



- **B** 4.8 ft
- **C** 6.4 ft
- **D** 9.6 ft

CSG00342

81 Triangle *JKL* is shown below.



Which equation should be used to find the length of \overline{JK} ?

A $\sin 24^\circ = \frac{JK}{28}$ B $\sin 24^\circ = \frac{28}{JK}$ C $\cos 24^\circ = \frac{JK}{28}$ D $\cos 24^\circ = \frac{28}{JK}$

CSG20031

- 32 -

Geometry

- 82
- What is the approximate height, in feet, of the tree in the figure below?



- $\sin 50^{\circ} \approx 0.766$ $\cos 50^{\circ} \approx 0.643$ $\tan 50^{\circ} \approx 1.192$
- A 64.3
- **B** 76.6
- **C** 119.2
- **D** 130.5

CSG20126

83 What is the approximate value of *x* in the triangle below?





- A 3.4 units
- **B** 4.2 units
- **C** 4.9 units
- **D** 7.3 units

CSG30029



- 33 —

Released Test Questions

- 84
- If $a = 3\sqrt{3}$ in the right triangle below, what is the value of *b*?



- **A** 9
- **B** $6\sqrt{3}$
- C $12\sqrt{3}$
- **D** 18

CSG10052

85 What is the value of *x* in the triangle below?





87 A square is circumscribed about a circle. What is the ratio of the area of the circle to the area of the square?



D $\frac{\pi}{4}$

CSG00585

88 In the circle below, \overline{AB} and \overline{CD} are chords intersecting at *E*.



- If AE = 5, BE = 12, and CE = 6, what is the length of \overline{DE} ?
- A 7
- **B** 9
- **C** 10
- **D** 13

CSG00022

— **35** —

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Geometry

Released Test Questions

- 89
- \overrightarrow{RB} is tangent to a circle, whose center is A, at point B. \overrightarrow{BD} is a diameter.



What is $m \angle CBR$?

- A 50°
- **B** 65°
- **C** 90°
- **D** 130°

CSG20186

90 In the figure below, \overrightarrow{AB} is tangent to circle *O* at point *A*, secant \overrightarrow{BD} intersects circle *O* at points *C* and *D*, $\overrightarrow{mAC} = 70^\circ$, and $\overrightarrow{mCD} = 110^\circ$.



What is *m∠ABC*?

- **A** 20°
- **B** 40°
- **C** 55°
- **D** 70°

CSG10257

- 36 -

91 In the circle shown below, the measure of $\widehat{PR} = 140^{\circ}$ and the measure of $\angle RPQ = 50^{\circ}$.





- A 50°
- **B** 60°
- **C** 70°
- **D** 120°

CSG10003

92 \overline{QS} is a diameter of the circle below, and $\overline{QS} \perp \overline{PR}$.



- **93** The vertices of $\triangle ABC$ are A(2, 1), B(3, 4), and C(1, 3). If $\triangle ABC$ is translated 1 unit down and 3 units to the left to create $\triangle DEF$, what are the coordinates of the vertices of $\triangle DEF$?
 - **A** *D*(0, 1), *E*(1, 2), *F*(1, 3)
 - **B** D(0, -1), E(0, 3), F(-2, -2)
 - **C** D(-2, 2), E(0, 3), F(-1, 0)
 - **D** D(-1, 0), E(0, 3), F(-2, 2)

CSG00317

Geometry

94

If triangle ABC is rotated 180 degrees about the origin, what are the coordinates of A'?



- **A** (-5, -4)
- **B** (-5, 4)
- **C** (-4, 5)
- **D** (-4, -5)

CSG10096

95 Trapezoid *ABCD* below is to be translated to trapezoid A'B'C'D' by the following motion rule.

$$(x, y) \rightarrow (x+3, y-4)$$



What will be the coordinates of vertex C'?

- $\mathbf{A} \quad (1, -3)$
- **B** (2, 1)
- $\mathbf{C} = (6, 1)$
- **D** (8, -3)

CSG10214

- 38 -

96 Which expression describes the translation of a point from (-3, 4) to (4, -1)?

- A 7 units left and 5 units up
- **B** 7 units right and 5 units up
- C 7 units left and 5 units down
- **D** 7 units right and 5 units down

CSG20057

— 39 —