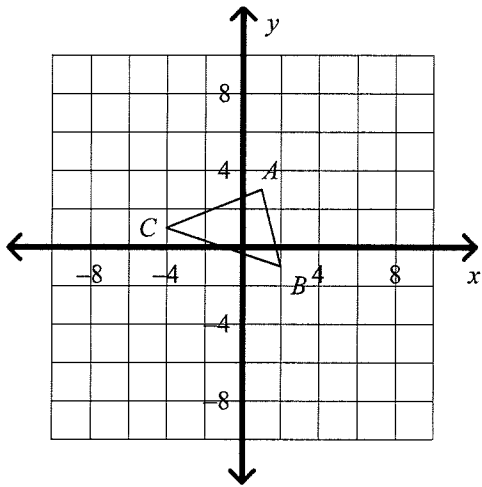
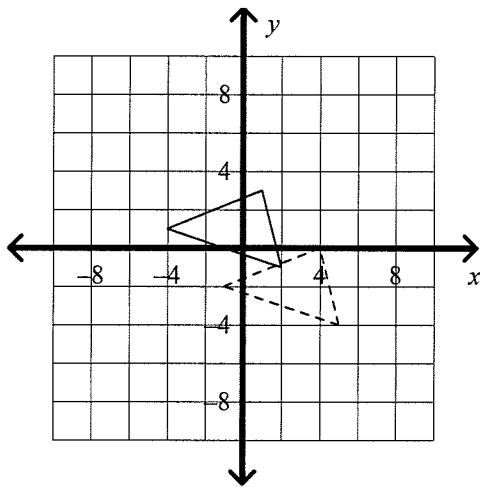


Geometry C Final Exam Review 2016-17

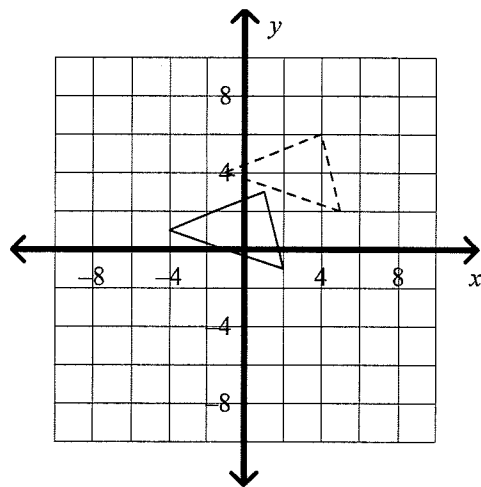
1. Which graph shows $T_{\langle -3, 3 \rangle}(\triangle ABC)$?



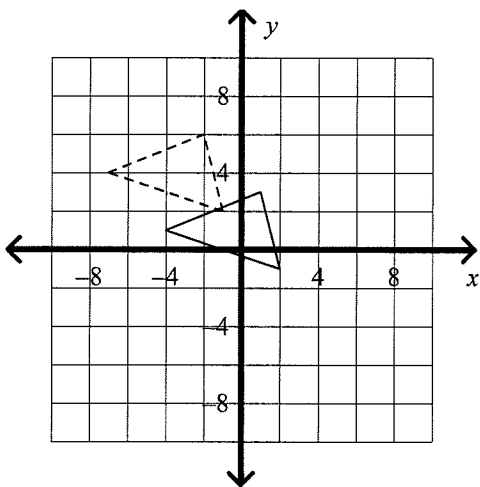
A.



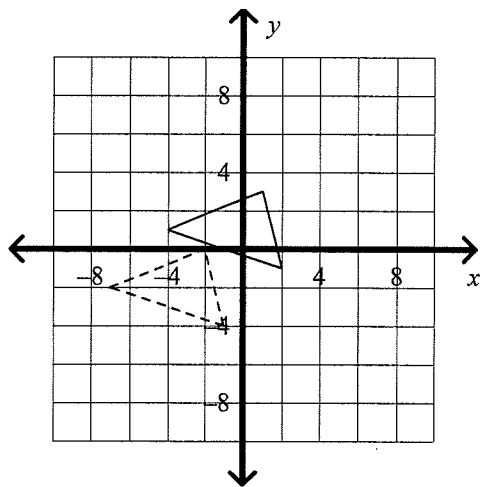
C.



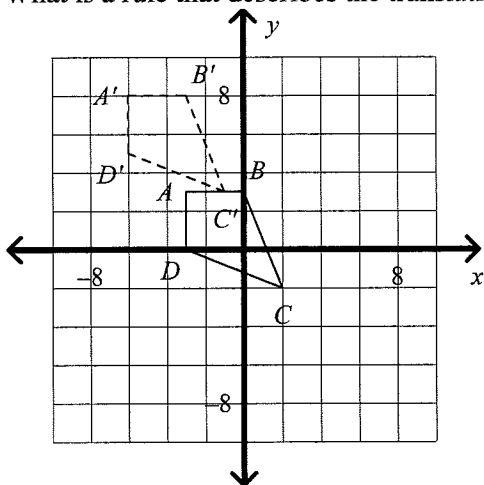
B.



D.



_____ 2. What is a rule that describes the translation $ABCD \rightarrow A'B'C'D'$?



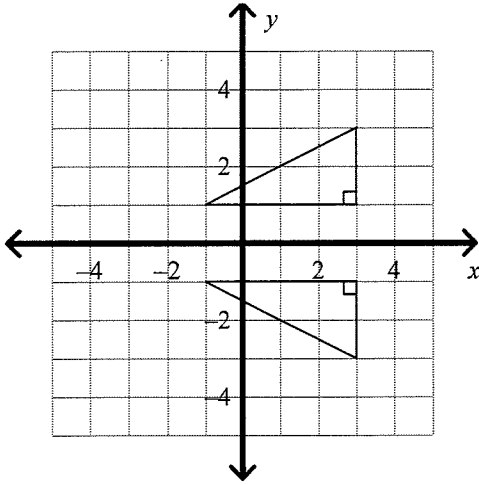
- A. $T_{\langle 3, 5 \rangle}(ABCD)$
- B. $T_{\langle 3, -5 \rangle}(ABCD)$
- C. $T_{\langle 5, -3 \rangle}(ABCD)$
- D. $T_{\langle -3, 5 \rangle}(ABCD)$

_____ 3. The vertices of a triangle are $P(5, 2)$, $Q(-4, 6)$, and $R(-7, 3)$. Name the vertices of $R_{y=x}(\triangle PQR)$.

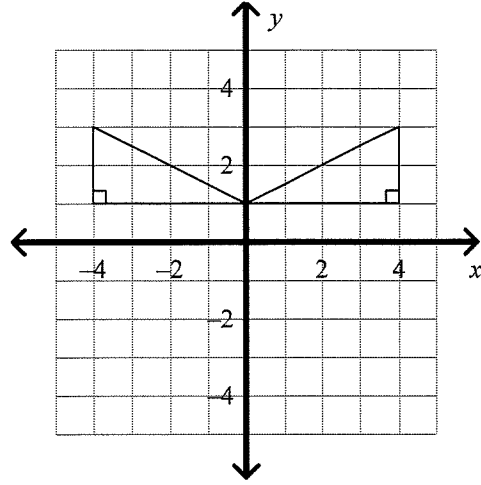
- A. $P'(2, 5), Q'(6, -4), R'(3, -7)$
- B. $P'(-2, -5), Q'(-6, 4), R'(-3, 7)$
- C. $P'(2, -5), Q'(6, 4), R'(3, 7)$
- D. $P'(-2, 5), Q'(-6, -4), R'(-3, -7)$

4. Which graph shows a triangle and its reflection image over the x -axis?

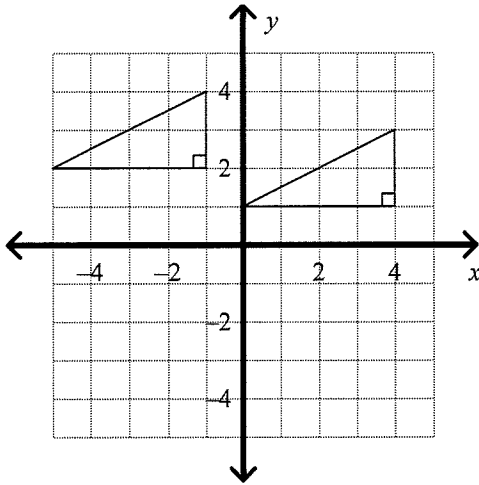
A.



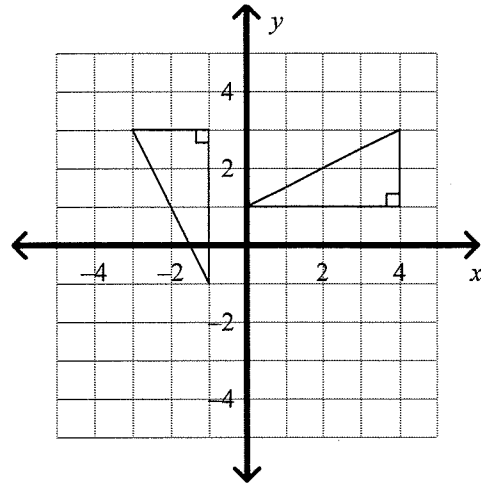
C.



B.



D.



5. A carnival ride is drawn on a coordinate plane so that the first car is located at the point $(60, 0)$. What are the coordinates of the first car after a rotation of 270° about the origin?

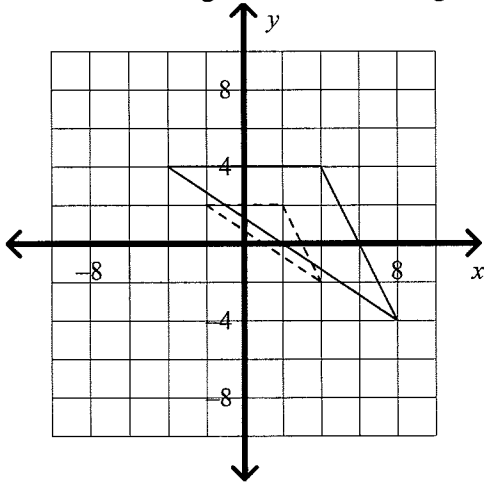
A. $(0, -60)$

B. $(-30, -30)$

C. $(0, 60)$

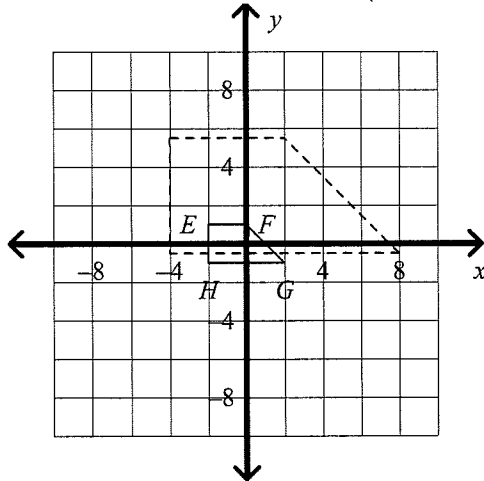
D. $(-60, 0)$

___ 6. The dashed triangle is a dilation image of the solid triangle. What is the scale factor?



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

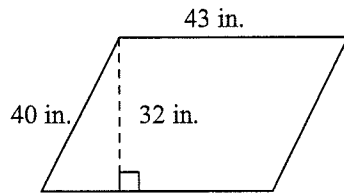
___ 7. The dashed-lined figure is a dilation image of $EFGH$. Is $D_{(k,H)}$ an enlargement or a reduction? What is the scale factor n of the dilation? (Note that the axes are labeled by 2's)



- A. $k = 3$; reduction C. $k = 3$; enlargement
 B. $k = 6$; enlargement D. $k = \frac{1}{3}$; reduction

Find the area. The figure is not drawn to scale.

___ 8.

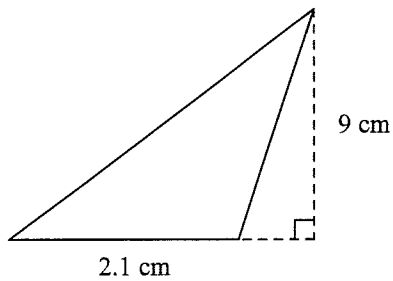


- A. 1376 in.^2 B. 1720 in.^2 C. 150 in.^2 D. 75 in.^2

Name: _____

ID: A

___ 9.



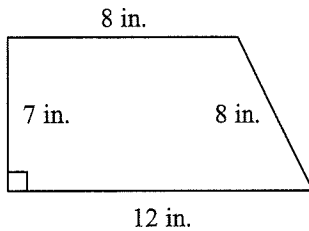
- A. 9.45 cm^2 B. 11.1 cm^2 C. 37.8 cm^2 D. 18.9 cm^2

___ 10. The area of a parallelogram is 150 cm^2 and the height is 25 cm. Find the base.

- A. 175 cm B. 125 cm C. $3,750 \text{ cm}^2$ D. 6 cm

Find the area of the trapezoid.

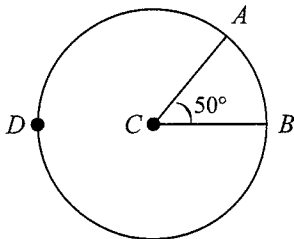
___ 11.



Not drawn to scale

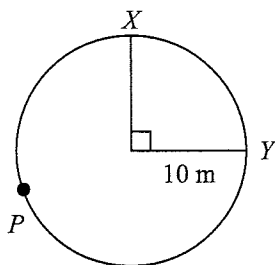
- A. 80 in.^2 B. 77.2 in.^2 C. 70 in.^2 D. 75 in.^2

___ 12. Name the major arc and find its measure.



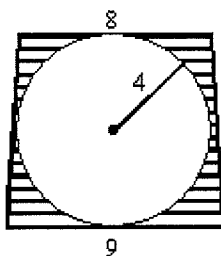
- A. \widehat{BDA} ; 50 B. \widehat{AB} ; 310 C. \widehat{BDA} ; 310 D. \widehat{AB} ; 50

13. Find the length of \widehat{YPX} . Leave your answer in terms of π .



- A. 47.1 m B. 15.7 m C. 94.2 m D. 2827.4 m

14. Find the area of the shaded portion of the figure. Dimensions are in feet. Leave your answer in terms of π . The figure is not drawn to scale.

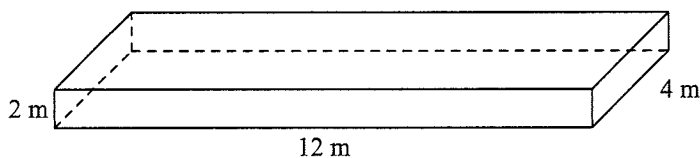


- A. 21.7 ft² B. 17.7 ft² C. 42.9 ft² D. none of these

15. Find the area of a sector with a central angle of 190° and a diameter of 5.8 cm. Round to the nearest tenth.
- A. 55.8 cm² B. 13.9 cm² C. 2.4 cm² D. 6.1 cm²

Use formulas to find the surface area of the given prism. Round your answer to the nearest whole number.

- 16.



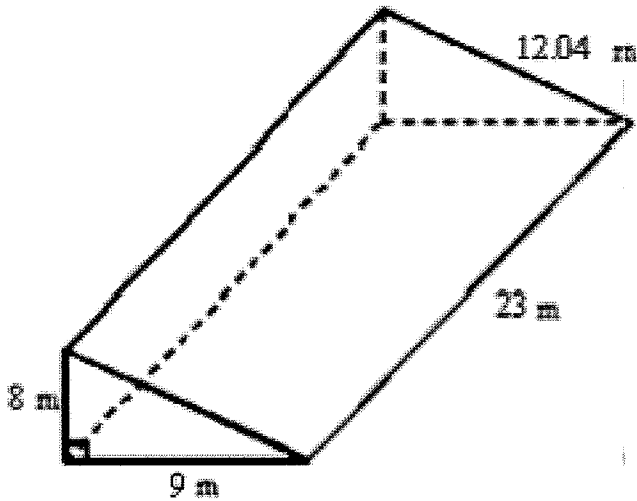
Not drawn to scale

- A. 160 m² C. 64 m²
 B. 112 m² D. 144 m²

Name: _____

ID: A

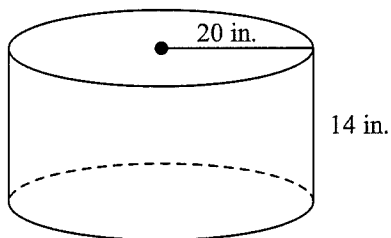
___ 17. Find the total surface area of the triangular prism.



Not drawn to scale

- A. 771 m^2
- B. 667.9 m^2
- C. 828 m^2
- D. 739.9 m^2

___ 18. Find the surface area of the cylinder to the nearest whole number.



Not drawn to scale

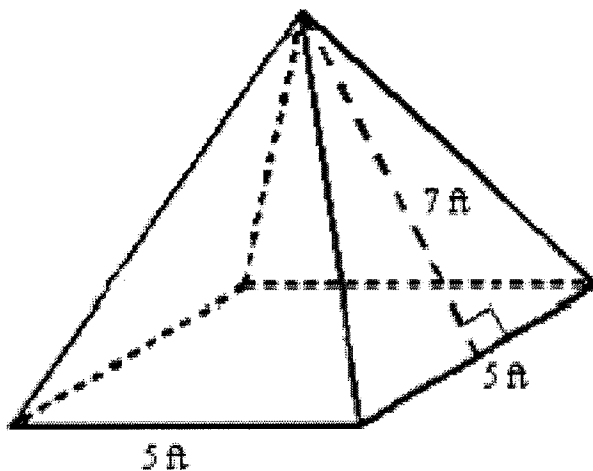
- A. 15579 in.^2
- B. 1759 in.^2
- C. 5777 in.^2
- D. 4273 in.^2

___ 19. Allison is planning to cover the **lateral area** of a large cylindrical garbage can with decorative fabric for a theme party. The can has a diameter of 3 feet and a height of 3.5 feet. How much fabric does she need? Round to the nearest square foot.

- A. 66 ft^2
- B. 61 ft^2
- C. 33 ft^2
- D. 123 ft^2

Find the surface area of the regular pyramid shown to the nearest whole number.

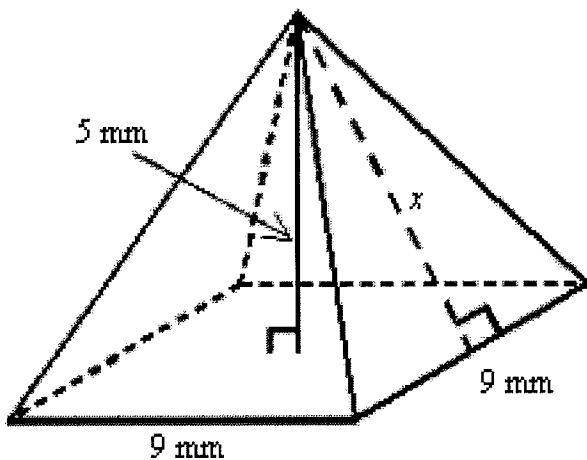
___ 20.



Not drawn to scale

- A. 115 ft^2 B. 58.3 ft^2 C. 175 ft^2 D. 95 ft^2

___ 21. Find the slant height x of the pyramid shown, to the nearest tenth.



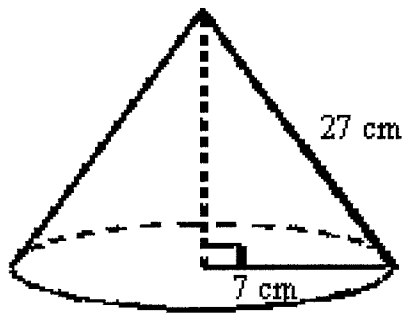
Not drawn to scale

- A. 6.7 mm B. 7.8 mm C. 8.9 mm D. 3.7 mm

Name: _____

ID: A

____ 22. Find the surface area of the cone to the nearest tenth.

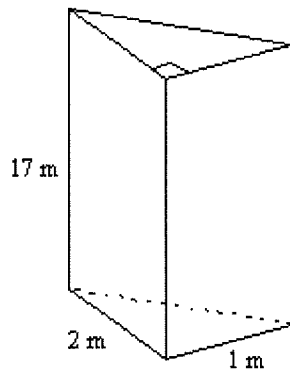


Not drawn to scale

- A. 622 cm^2 B. 51 cm^2 C. 1385 cm^2 D. 747 cm^2

Find the volume of the given prism. Round to the nearest tenth if necessary.

____ 23.



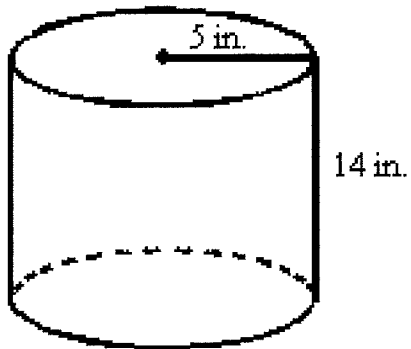
- A. 17 m^3 B. 1 m^3 C. 8.5 m^3 D. 34 m^3

Name: _____

ID: A

Find the volume of the cylinder in terms of π .

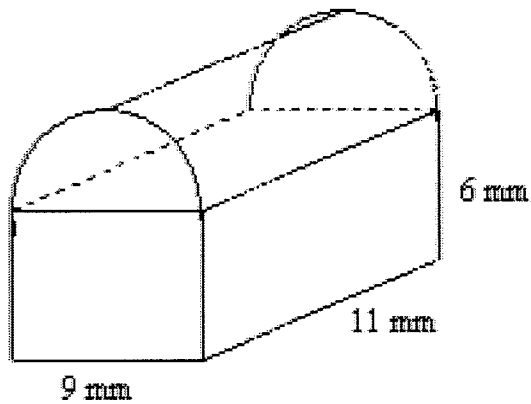
___ 24.



Not drawn to scale

- A. 1099.6 in.^3 B. 219.9 in.^3 C. 1627.3 in.^3 D. 791.7 in.^3

___ 25. Find the volume of the composite space figure to the nearest whole number.

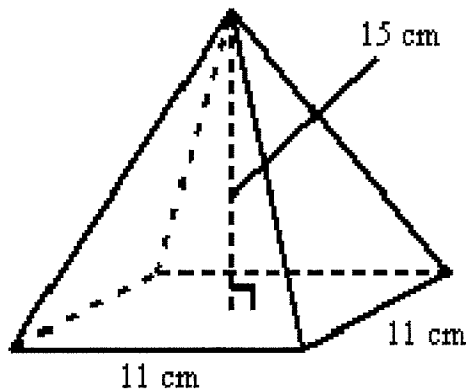


Not drawn to scale

- A. 1293.8 mm^3 B. 699.8 mm^3 C. 943 mm^3 D. 591 mm^3

Find the volume of the square pyramid shown. Round to the nearest tenth if necessary.

_____ 26.

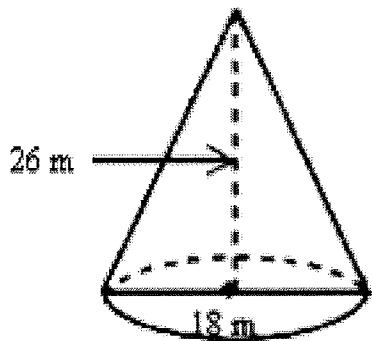


Not drawn to scale

- A. 1815 cm^3 B. 605 cm^3 C. 660 cm^3 D. 220 cm^3

Find the volume of the right cone shown as a decimal rounded to the nearest tenth.

_____ 27.



Not drawn to scale

- A. 156 m^3 B. 2205.4 m^3 C. 2808 m^3 D. 8424 m^3

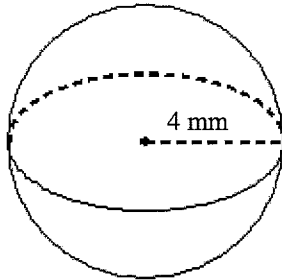
Find the surface area of the sphere with the given dimension. Leave your answer in terms of π .

_____ 28. radius of 20 m

- A. 628 m^2 B. 5026.5 m^2 C. 1256 m^2 D. 2513.3 m^2

Find the volume of the sphere shown. Give each answer rounded to the nearest cubic unit.

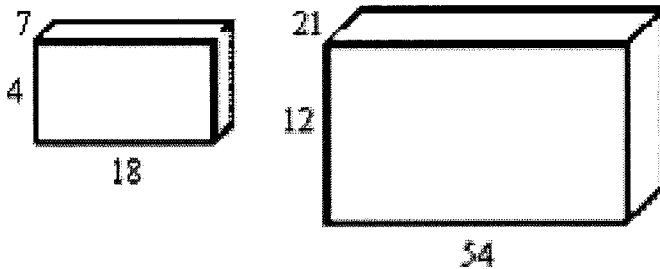
___ 29.



- A. 67 mm^3 B. 134 mm^3 C. 268 mm^3 D. 201 mm^3

Are the two figures similar? If so, give the scale factor of the smaller figure to the larger figure.

___ 30.



Not drawn to scale

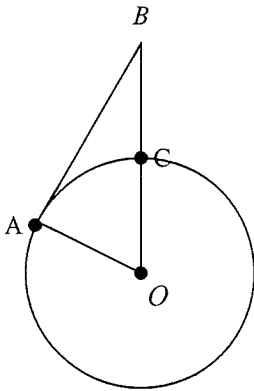
- A. yes; $\frac{1}{3}$ B. yes; $\frac{1}{2}$ C. yes; $\frac{1}{5}$ D. no

___ 31. Find the scale factor of a prism with the surface area of 100 ft^2 to a similar prism with the surface area of 361 ft^2 .

- A. $10 : 19$ B. $6859 : 1000$ C. $19 : 10$ D. $1000 : 6859$

- _____ 32. If the scale factor of two similar solids is 4 : 13, what is the ratio of their corresponding areas? What is the ratio of their corresponding volumes?
- A. The ratio of their corresponding areas is 4 : 169.
The ratio of their corresponding volumes is 4 : 2197.
- B. The ratio of their corresponding areas is 64 : 2197.
The ratio of their corresponding volumes is 16 : 169.
- C. The ratio of their corresponding areas is 8 : 26.
The ratio of their corresponding volumes is 12 : 39.
- D. The ratio of their corresponding areas is 16 : 169.
The ratio of their corresponding volumes is 64 : 2197.
- _____ 33. The surface area of Solid A is 675 m^2 and the surface area of Solid B is 432 m^2 . If the volume of Solid B is 960 m^3 , find the volume of Solid A.
- A. 1500 yd^3 B. 1875 yd^3 C. 1200 yd^3 D. 1000 yd^3

- _____ 34. \overline{AB} is tangent to $\odot O$. If $AO = 40$ and $BC = 45$, what is AB ?
The diagram is not to scale.

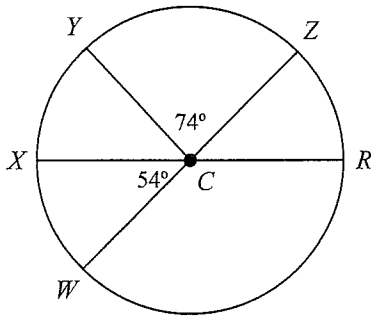


- A. 75 B. 115 C. 90 D. 85

Name: _____

ID: A

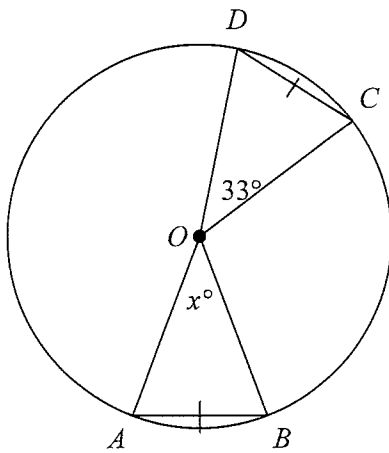
___ 35. \overline{WZ} and \overline{XR} are diameters. Find the measure of \widehat{ZWX} . (The figure is not drawn to scale.)



- A. 52 B. 254 C. 234 D. 308

Find the value of x . O is the center of the circle.

___ 36.

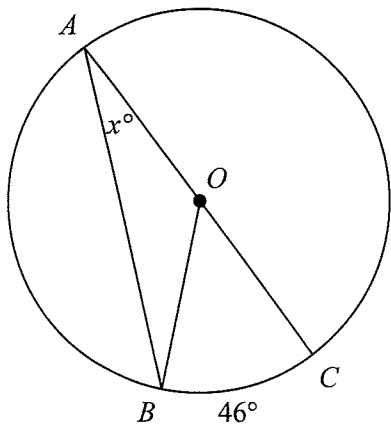


- A. 57 B. 16.5 C. 33 D. 114

Name: _____

ID: A

___ 37. Find x in circle O . (The figure is not drawn to scale.)



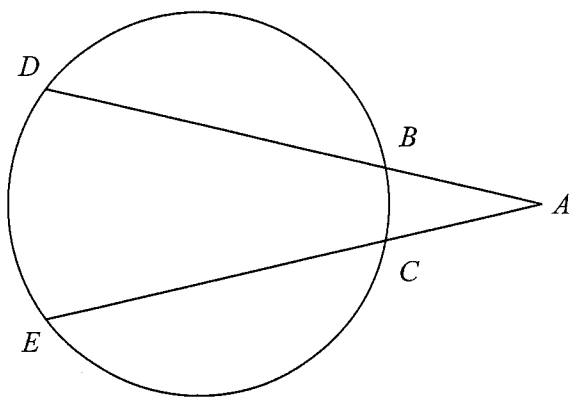
A. 23

B. 44

C. 92

D. 46

___ 38. $m\widehat{DE} = 109$ and $m\widehat{BC} = 70$. Find $m\angle A$. (The figure is not drawn to scale.)



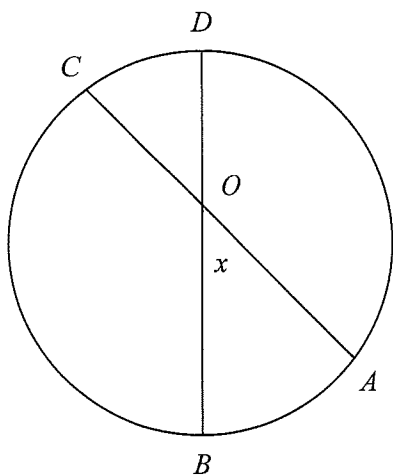
A. 74

B. 39

C. 19.5

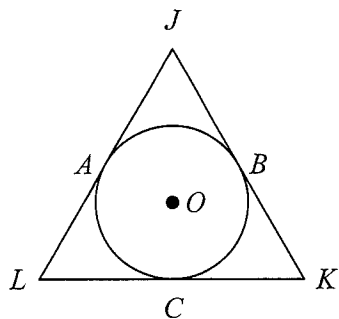
D. 89.5

___ 39. Find the value of x for $m\widehat{AB} = 28$ and $m\widehat{CD} = 32$. (The figure is not drawn to scale.)



- A. 30 B. 4 C. 44 D. 60

___ 40. \overline{JK} , \overline{KL} , and \overline{LJ} are all tangent to circle O (not drawn to scale), and $\overline{JK} \cong \overline{LJ}$. $JA = 9$, $AL = 10$. Find the perimeter of $\triangle JKL$.



- A. 58 B. 56 C. 38 D. 19

Geometry C Final Exam Review 2016-17

Answer Section

1. ANS: B PTS: 1 DIF: L3 REF: 9-1 Translations
OBJ: 9-1.2 To find translation images of figures
NAT: CC G.CO.2| CC G.CO.4| CC G.CO.5| CC G.CO.6| G.2.b| G.2.c| G.2.d
STA: G3.1.1| G3.1.2 TOP: 9-1 Problem 3 Finding the Image of a Translation
KEY: translation | transformation | image | preimage
2. ANS: D PTS: 1 DIF: L3 REF: 9-1 Translations
OBJ: 9-1.2 To find translation images of figures
NAT: CC G.CO.2| CC G.CO.4| CC G.CO.5| CC G.CO.6| G.2.b| G.2.c| G.2.d
STA: G3.1.1| G3.1.2 TOP: 9-1 Problem 4 Writing a Rule to Describe a Translation
KEY: translation
3. ANS: A PTS: 1 DIF: L3 REF: 9-2 Reflections
OBJ: 9-2.1 To find reflection images of figures
NAT: CC G.CO.2| CC G.CO.4| CC G.CO.5| CC G.CO.6| G.2.b| G.2.c| G.2.d
STA: G3.1.1 TOP: 9-2 Problem 1 Reflecting a Point Across a Line
KEY: reflection | line of reflection
4. ANS: A PTS: 1 DIF: L3 REF: 9-2 Reflections
OBJ: 9-2.1 To find reflection images of figures
NAT: CC G.CO.2| CC G.CO.4| CC G.CO.5| CC G.CO.6| G.2.b| G.2.c| G.2.d
STA: G3.1.1 TOP: 9-2 Problem 2 Graphing a Reflection Image
KEY: reflection | line of reflection
5. ANS: A PTS: 1 DIF: L3 REF: 9-3 Rotations
OBJ: 9-3.1 To draw and identify rotation images of figures
NAT: CC G.CO.2| CC G.CO.4| CC G.CO.5| CC G.CO.6| G.2.b| G.2.c| G.2.d
STA: G3.1.1 TOP: 9-3 Problem 2 Drawing Rotations in a Coordinate Plane
KEY: rotation | center of rotation | angle of rotation
6. ANS: C PTS: 1 DIF: L3 REF: 9-6 Dilations
OBJ: 9-6.1 To understand dilation images of figures NAT: CC G.CO.2| G.2.c| G.2.d
STA: G3.1.1| G3.2.1| G3.2.2 TOP: 9-6 Problem 1 Finding a Scale Factor
KEY: dilation | reduction | scale factor
7. ANS: C PTS: 1 DIF: L3 REF: 9-6 Dilations
OBJ: 9-6.1 To understand dilation images of figures NAT: CC G.CO.2| G.2.c| G.2.d
STA: G3.1.1| G3.2.1| G3.2.2 TOP: 9-6 Problem 1 Finding a Scale Factor
KEY: dilation | enlargement | scale factor
8. ANS: A PTS: 1 DIF: L3
REF: 10-1 Areas of Parallelograms and Triangles
OBJ: 10-1.1 To find the area of parallelograms and triangles
NAT: CC G.GPE.7| CC G.MG.1| N.3.c| N.3.f| M.1.c| M.1.f| A.4.e
STA: G1.2.2| G1.5.1| G1.5.2| G2.1.1| G2.1.2
TOP: 10-1 Problem 1 Finding the Area of a Parallelogram KEY: area | parallelogram | base | height
9. ANS: A PTS: 1 DIF: L3
REF: 10-1 Areas of Parallelograms and Triangles
OBJ: 10-1.1 To find the area of parallelograms and triangles
NAT: CC G.GPE.7| CC G.MG.1| N.3.c| N.3.f| M.1.c| M.1.f| A.4.e
STA: G1.2.2| G1.5.1| G1.5.2| G2.1.1| G2.1.2
TOP: 10-1 Problem 3 Finding the Area of a Triangle KEY: triangle | area

10. ANS: D PTS: 1 DIF: L3
REF: 10-1 Areas of Parallelograms and Triangles
OBJ: 10-1.1 To find the area of parallelograms and triangles
NAT: CC G.GPE.7| CC G.MG.1| N.3.c| N.3.f| M.1.c| M.1.f| A.4.e
STA: G1.2.2| G1.5.1| G1.5.2| G2.1.1| G2.1.2
TOP: 10-1 Problem 2 Finding a Missing Dimension KEY: area | base | height | parallelogram
11. ANS: C PTS: 1 DIF: L3
REF: 10-2 Areas of Trapezoids, Rhombuses, and Kites
OBJ: 10-2.1 To find the area of a trapezoid, rhombus, or kite NAT: CC G.MG.1
TOP: 10-2 Problem 1 Area of a Trapezoid KEY: trapezoid | area
12. ANS: C PTS: 1 DIF: L3 REF: 10-6 Circles and Arcs
OBJ: 10-6.1 To find the measures of central angles and arcs
NAT: CC G.CO.1| CC G.C.1| CC G.C.2| CC G.C.5 STA: G1.6.4
TOP: 10-6 Problem 2 Finding the Measures of Arcs KEY: major arc | measure of an arc | arc
13. ANS: A PTS: 1 DIF: L3 REF: 10-6 Circles and Arcs
OBJ: 10-6.2 To find the circumference and arc length
NAT: CC G.CO.1| CC G.C.1| CC G.C.2| CC G.C.5 STA: G1.6.4
TOP: 10-6 Problem 4 Finding Arc Length KEY: arc | circumference
14. ANS: B PTS: 1 DIF: L4 REF: 10-7 Areas of Circles and Sectors
OBJ: 10-7.1 To find the areas of circles, sectors, and segments of circles
NAT: CC G.C.5 TOP: 10-7 Problem 1 Finding the Area of a Circle
KEY: area of a circle | radius
15. ANS: B PTS: 1 DIF: L3 REF: 10-7 Areas of Circles and Sectors
OBJ: 10-7.1 To find the areas of circles, sectors, and segments of circles
NAT: CC G.C.5 TOP: 10-7 Problem 2 Finding the Area of a Sector of a Circle
KEY: sector | circle | area | central angle
16. ANS: C PTS: 1 DIF: L2
REF: 11-2 Surface Areas of Prisms and Cylinders
OBJ: 11-2.1 To find the surface area of a prism and a cylinder
NAT: CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f STA: G1.8.1
TOP: 11-2 Problem 2 Using Formulas to Find Surface Area of a Prism
KEY: surface area formulas | lateral area | surface area | prism | surface area of a prism
17. ANS: D PTS: 1 DIF: L4
REF: 11-2 Surface Areas of Prisms and Cylinders
OBJ: 11-2.1 To find the surface area of a prism and a cylinder
NAT: CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f STA: G1.8.1
TOP: 11-2 Problem 2 Using Formulas to Find Surface Area of a Prism
KEY: surface area formulas | lateral area | surface area | prism | surface area of a prism
18. ANS: D PTS: 1 DIF: L4
REF: 11-2 Surface Areas of Prisms and Cylinders
OBJ: 11-2.1 To find the surface area of a prism and a cylinder
NAT: CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f STA: G1.8.1
TOP: 11-2 Problem 3 Finding Surface Area of a Cylinder
KEY: surface area of a cylinder | cylinder | surface area formulas | surface area

19. ANS: C PTS: 1 DIF: L3
REF: 11-2 Surface Areas of Prisms and Cylinders
OBJ: 11-2.1 To find the surface area of a prism and a cylinder
NAT: CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f STA: G1.8.1
TOP: 11-2 Problem 4 Finding Lateral Area of a Cylinder
KEY: cylinder | lateral area of a cylinder | surface area formulas | word problem | problem solving
20. ANS: D PTS: 1 DIF: L3
REF: 11-3 Surface Areas of Pyramids and Cones
OBJ: 11-3.1 To find the surface area of a pyramid and a cone
NAT: CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f STA: G1.8.1
TOP: 11-3 Problem 1 Finding the Surface Area of a Pyramid
KEY: surface area of a pyramid | surface area | surface area formulas | pyramid
21. ANS: A PTS: 1 DIF: L2
REF: 11-3 Surface Areas of Pyramids and Cones
OBJ: 11-3.1 To find the surface area of a pyramid and a cone
NAT: CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f STA: G1.8.1
TOP: 11-3 Problem 2 Finding the Lateral Area of a Pyramid
KEY: pyramid | slant height of a pyramid | Pythagorean Theorem
22. ANS: D PTS: 1 DIF: L3
REF: 11-3 Surface Areas of Pyramids and Cones
OBJ: 11-3.1 To find the surface area of a pyramid and a cone
NAT: CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f STA: G1.8.1
TOP: 11-3 Problem 3 Finding the Surface Area of a Cone
KEY: surface area of a cone | surface area formulas | surface area | cone
23. ANS: A PTS: 1 DIF: L3
REF: 11-4 Volumes of Prisms and Cylinders
OBJ: 11-4.1 To find the volume of a prism and the volume of a cylinder
NAT: CC G.GMD.1| CC G.GMD.2| CC G.GMD.3| CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f
STA: G1.8.1| G2.1.3 TOP: 11-4 Problem 2 Finding the Volume of a Triangular Prism
KEY: volume of a triangular prism | volume formulas | volume | prism
24. ANS: A PTS: 1 DIF: L3
REF: 11-4 Volumes of Prisms and Cylinders
OBJ: 11-4.1 To find the volume of a prism and the volume of a cylinder
NAT: CC G.GMD.1| CC G.GMD.2| CC G.GMD.3| CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f
STA: G1.8.1| G2.1.3 TOP: 11-4 Problem 3 Finding the Volume of a Cylinder
KEY: volume of a cylinder | cylinder | volume formulas | volume
25. ANS: C PTS: 1 DIF: L4
REF: 11-4 Volumes of Prisms and Cylinders
OBJ: 11-4.1 To find the volume of a prism and the volume of a cylinder
NAT: CC G.GMD.1| CC G.GMD.2| CC G.GMD.3| CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f
STA: G1.8.1| G2.1.3 TOP: 11-4 Problem 4 Finding Volume of a Composite Figure
KEY: volume of a composite figure | cylinder | volume of a cylinder | composite space figure | volume of a rectangular prism | volume formulas | volume | prism
26. ANS: B PTS: 1 DIF: L2
REF: 11-5 Volumes of Pyramids and Cones
OBJ: 11-5.1 To find the volume of a pyramid and of a cone
NAT: CC G.GMD.3| CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f
STA: G1.8.1| G2.1.3 TOP: 11-5 Problem 1 Finding Volume of a Pyramid
KEY: volume of a pyramid | pyramid | volume formulas | volume

27. ANS: B PTS: 1 DIF: L3
REF: 11-5 Volumes of Pyramids and Cones
OBJ: 11-5.1 To find the volume of a pyramid and of a cone
NAT: CC G.GMD.3| CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f
STA: G1.8.1| G2.1.3 TOP: 11-5 Problem 3 Finding the Volume of a Cone
KEY: volume of a cone | volume formulas | volume | cone
28. ANS: B PTS: 1 DIF: L2
REF: 11-6 Surface Areas and Volumes of Spheres
OBJ: 11-6.1 To find the surface area and volume of a sphere
NAT: CC G.GMD.3| CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f
STA: G1.8.1 TOP: 11-6 Problem 1 Finding the Surface Area of a Sphere
KEY: surface area of a sphere | surface area formulas | surface area | sphere
29. ANS: C PTS: 1 DIF: L2
REF: 11-6 Surface Areas and Volumes of Spheres
OBJ: 11-6.1 To find the surface area and volume of a sphere
NAT: CC G.GMD.3| CC G.MG.1| N.3.c| N.3.f| N.5.e| M.1.h| A.4.f
STA: G1.8.1 TOP: 11-6 Problem 3 Finding the Volume of a Sphere
KEY: volume of a sphere | sphere | volume formulas | volume
30. ANS: A PTS: 1 DIF: L3
REF: 11-7 Areas and Volumes of Similar Solids
OBJ: 11-7.1 To compare and find the areas and volumes of similar solids
NAT: CC G.MG.1| CC G.MG.2| G.1.f| N.3.f| N.5.e| M.1.b| M.1.h
STA: G1.8.1 TOP: 11-7 Problem 1 Identifying Similar Solids
KEY: similar solids | similarity ratio | rectangular prism
31. ANS: A PTS: 1 DIF: L3
REF: 11-7 Areas and Volumes of Similar Solids
OBJ: 11-7.1 To compare and find the areas and volumes of similar solids
NAT: CC G.MG.1| CC G.MG.2| G.1.f| N.3.f| N.5.e| M.1.b| M.1.h
STA: G1.8.1 TOP: 11-7 Problem 2 Finding the Scale Factor
KEY: similarity ratio | surface areas of similar solids | prism
32. ANS: D PTS: 1 DIF: L2
REF: 11-7 Areas and Volumes of Similar Solids
OBJ: 11-7.1 To compare and find the areas and volumes of similar solids
NAT: CC G.MG.1| CC G.MG.2| G.1.f| N.3.f| N.5.e| M.1.b| M.1.h
STA: G1.8.1 TOP: 11-7 Problem 2 Finding the Scale Factor
KEY: similarity ratio | volumes of similar solids
33. ANS: B PTS: 1 DIF: L3
REF: 11-7 Areas and Volumes of Similar Solids
OBJ: 11-7.1 To compare and find the areas and volumes of similar solids
NAT: CC G.MG.1| CC G.MG.2| G.1.f| N.3.f| N.5.e| M.1.b| M.1.h
STA: G1.8.1 TOP: 11-7 Problem 3 Using a Scale Factor
KEY: similarity ratio | ratio of surface areas of similar solids | ratio of volumes of similar solids
34. ANS: A PTS: 1 DIF: L2 REF: 12-1 Tangent Lines
OBJ: 12-1.1 To use properties of a tangent to a circle NAT: CC G.C.2| G.3.h
STA: G1.6.2 TOP: 12-1 Problem 2 Finding Distance
KEY: tangent to a circle | point of tangency | properties of tangents | Pythagorean Theorem

35. ANS: C PTS: 1 DIF: L2 REF: 12-2 Chords and Arcs
OBJ: 12-2.1 To use congruent chords, arcs, and central angles NAT: CC G.C.2| G.3.h
STA: G1.6.2 TOP: 12-2 Problem 4 Finding Measures in a Circle
KEY: arc | central angle | congruent arcs | arc measure | arc addition | diameter
36. ANS: C PTS: 1 DIF: L2 REF: 12-2 Chords and Arcs
OBJ: 12-2.1 To use congruent chords, arcs, and central angles NAT: CC G.C.2| G.3.h
STA: G1.6.2 TOP: 12-2 Problem 4 Finding Measures in a Circle
KEY: arc | central angle | congruent arcs | chord
37. ANS: A PTS: 1 DIF: L2 REF: 12-3 Inscribed Angles
OBJ: 12-3.1 To find the measure of an inscribed angle
NAT: CC G.C.2| CC G.C.3| CC G.C.4| G.3.h STA: G1.6.3
TOP: 12-3 Problem 1 Using the Inscribed Angle Theorem
KEY: circle | inscribed angle | intercepted arc | inscribed angle-arc relationship
38. ANS: C PTS: 1 DIF: L3
REF: 12-4 Angle Measures and Segment Lengths
OBJ: 12-4.1 To find measures of angles formed by chords, secants, and tangents
NAT: CC G.C.2| G.3.h TOP: 12-4 Problem 1 Finding Angle Measures
KEY: circle | secant | angle measure | arc measure | intersection outside the circle
39. ANS: A PTS: 1 DIF: L3
REF: 12-4 Angle Measures and Segment Lengths
OBJ: 12-4.1 To find measures of angles formed by chords, secants, and tangents
NAT: CC G.C.2| G.3.h TOP: 12-4 Problem 1 Finding Angle Measures
KEY: circle | secant | angle measure | arc measure | intersection inside the circle
40. ANS: A PTS: 1 DIF: L3 REF: 12-1 Tangent Lines
OBJ: 12-1.1 To use properties of a tangent to a circle NAT: CC G.C.2| G.3.h
STA: G1.6.2 TOP: 12-1 Problem 5 Circles Inscribed in Polygons
KEY: properties of tangents | tangent to a circle | triangle

