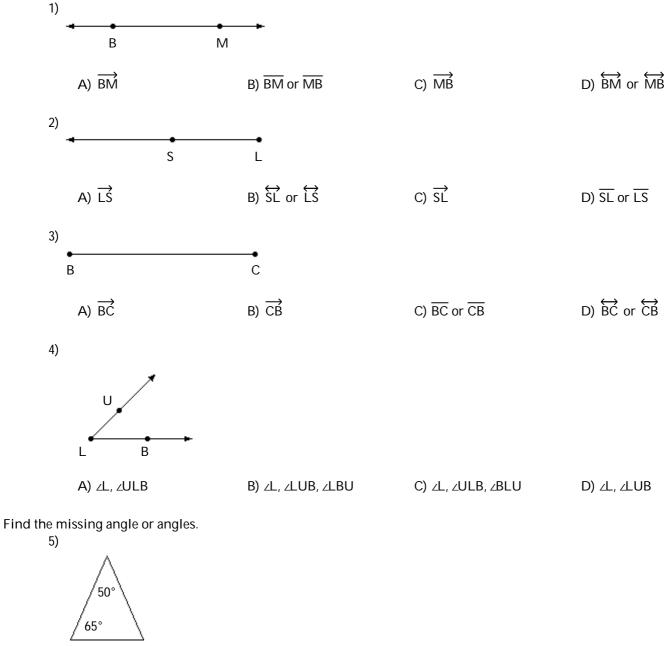
Geometry

Select the letter of the most appropriate answer and fully shade in the corresponding region on the answer sheet. If no answer seems appropriate then fully shade in region E on the answer sheet.

Use symbols to name the figure. If more than one symbol is possible, give all possible names.

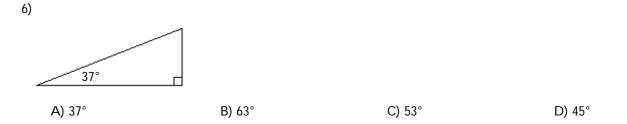




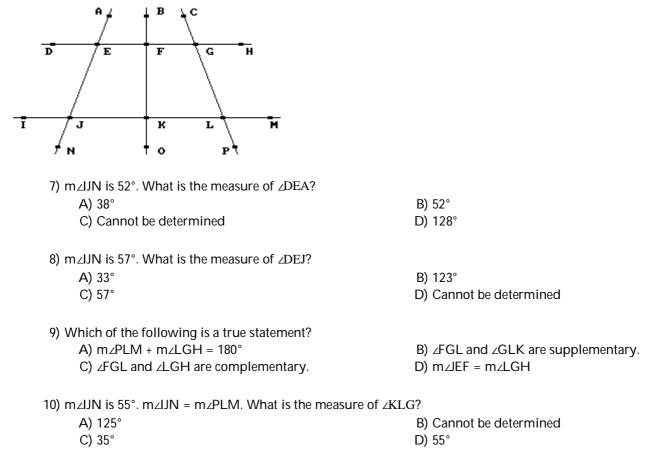
B) 65°

C) 50°

D) 75°

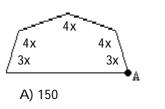


Refer to the figure to answer the question. Line DH is parallel to line IM. Line BO is perpendicular to line DH.



Determine the measure of the interior angle at vertex A.

11)

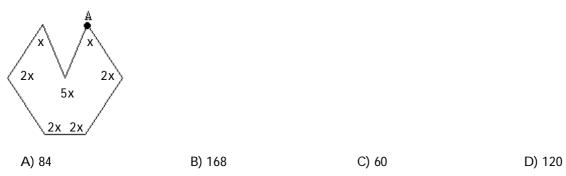


B) 50

C) 30

D) 90

2



Answer the question.

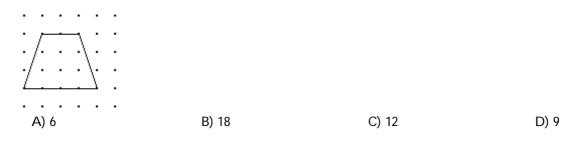
13) The central angle of a regular polygon is an angle with vertex at the center of the polygon.

Number of sides:	4	5	6	8
Central angle:	90°	72°	60°	45°

What is the measure of the exterior angle of a regular polygon with 20 sides?				
A) 20°	B) 16°	C) 21.6°	D) 18°	

Provide an appropriate response.

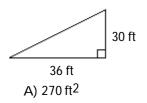
14) Find the area of the lattice polygon.



15) Find the area of the lattice polygon.



Find the area. 16)

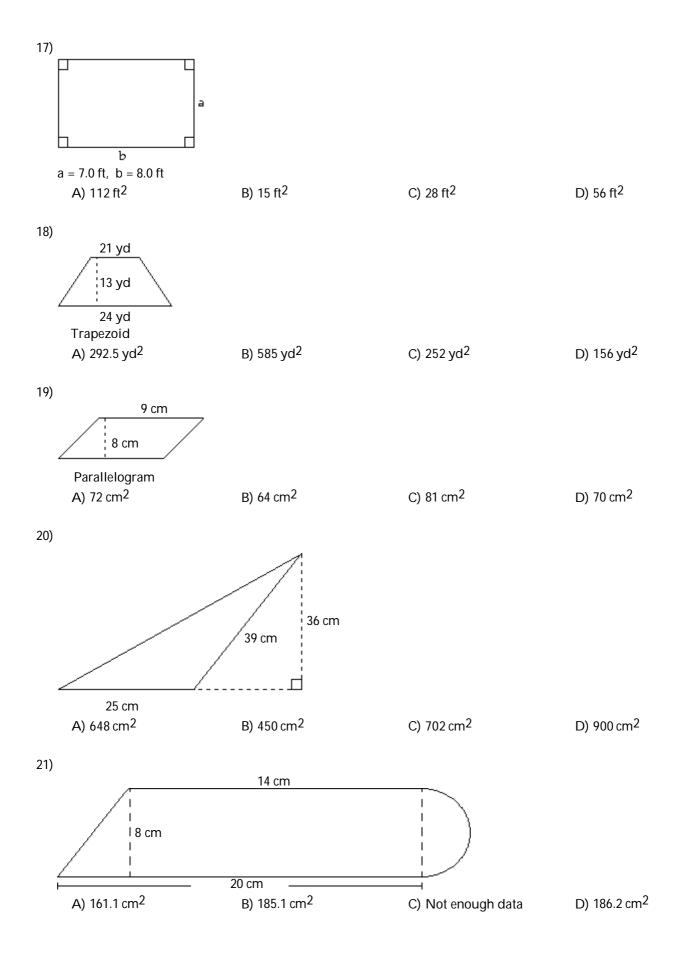


B) 1080 ft²

C) 540 ft²

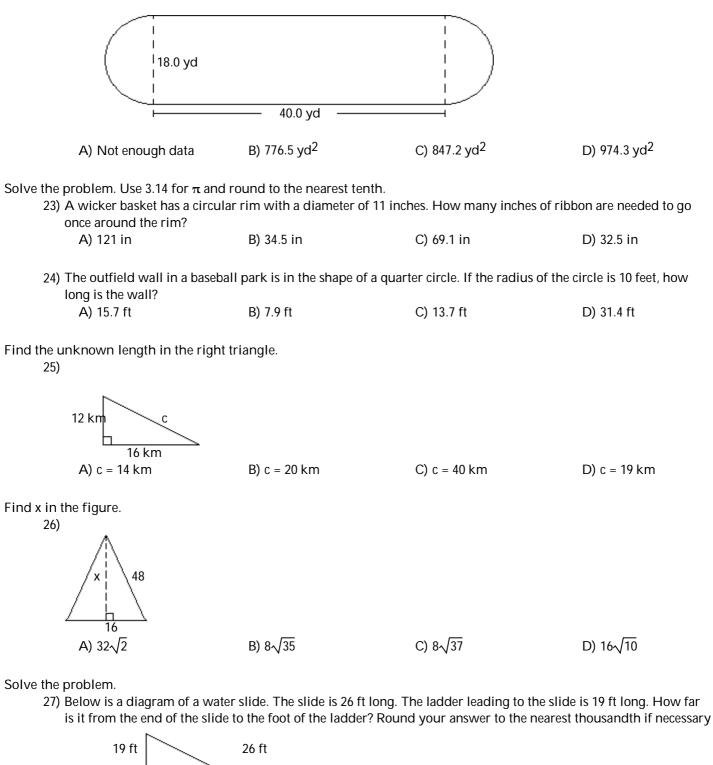
D) 450 ft²

12)



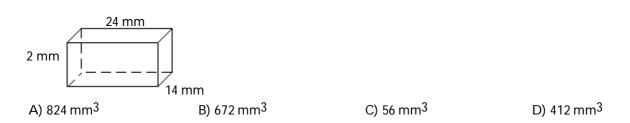
Solve the problem.

22) Find the area enclosed by the track shown above. Use 3.14 as an approximation for π and round to the nearest tenth.



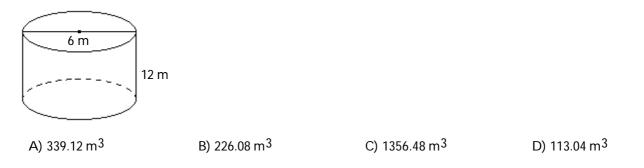


Find the volume of the solid. Round to two decimal places when necessary. 28) Right rectangular prism

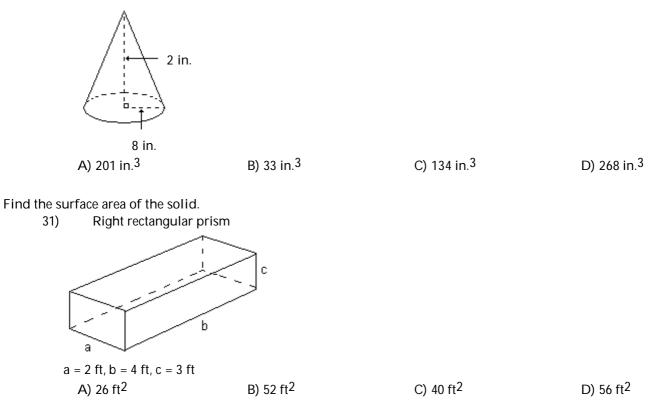


Find the volume.

29) Find the volume of the right circular cylinder. Use 3.14 for π and round to the nearest hundredth, if necessary.



30) Find the volume of the right circular cone pictured above. Use 3.14 for π . Round to the nearest whole number.

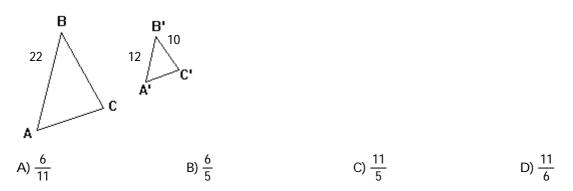


Find the surface area of the figure. Round your answer to the nearest whole number, if appropriate. 32) Cylindrical grain silo with hemispherical top (do not include the floor of the silo)

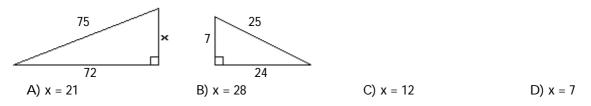


Solve the problem.

33) Find the scale factor of the size transformation shown below.



A pair of similar triangles is shown. Find the measure of the segment marked with the letter x. 34)



Solve the problem.

35) By holding a ruler 3 feet in front of her eyes as illustrated in the diagram, Carla sees that the top and bottom points of a vertical cliff face line up with marks separated by 3.5" on the ruler. According to the map, Carla is about a half mile from the cliff. What is the approximate height of the cliff rounded to the nearest foot? Recall that a mile is 5280 feet.

