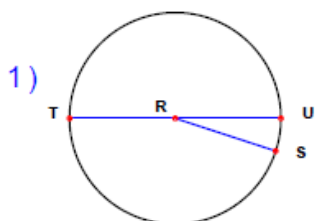


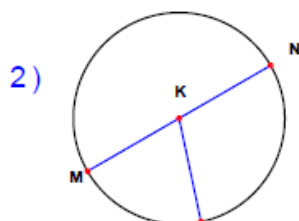
Areas of Circles

1. Find the area of a circle with a radius of 4.
2. Calculate the area of a circle with a diameter of 10.
3. A circle has a circumference of 12π . What is the area of the circle?
4. What is the area of a circle with a radius of 8?
5. A circle has a diameter of 20. What is the area of the circle?
6. What is the area of a circle that has a circumference of 18π ?
7. If the area of a circle is 49π , what is the radius of the circle?
8. What is the diameter of a circle that has an area of 121π ?

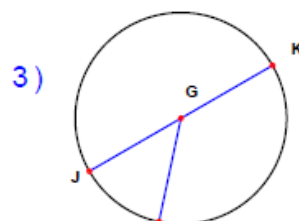
Solve the missing elements for each problem. Use 3.14 for π .



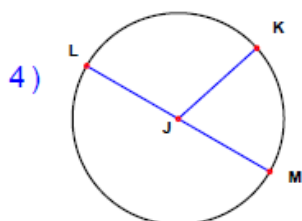
Radius: 2 inches
 Diameter: _____
 Circumference: _____
 Area: _____



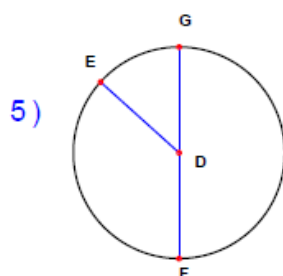
Radius: _____
 Diameter: 32 cm
 Circumference: _____
 Area: _____



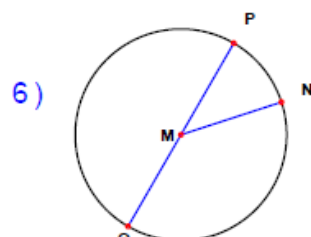
Radius: 7 mm
 Diameter: _____
 Circumference: _____
 Area: _____



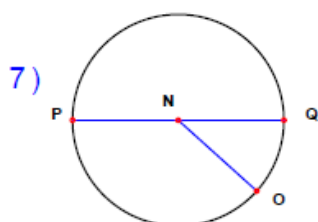
Radius: 19 inches
 Diameter: _____
 Circumference: _____
 Area: _____



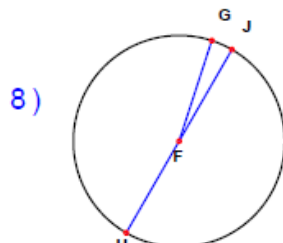
Radius: _____
 Diameter: 30 cm
 Circumference: _____
 Area: _____



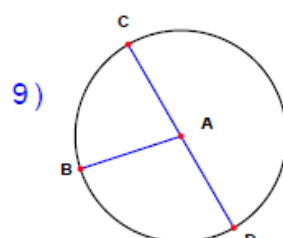
Radius: 11 mm
 Diameter: _____
 Circumference: _____
 Area: _____



Radius: _____
 Diameter: 26 inches
 Circumference: _____
 Area: _____



Radius: _____
 Diameter: 8 cm
 Circumference: _____
 Area: _____



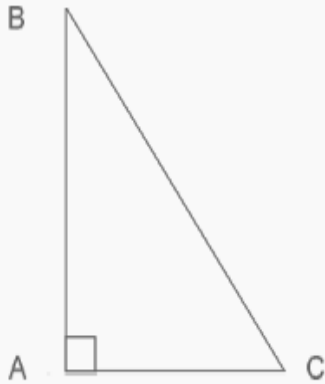
Radius: _____
 Diameter: 18 mm
 Circumference: _____
 Area: _____

Pythagorean Theorem

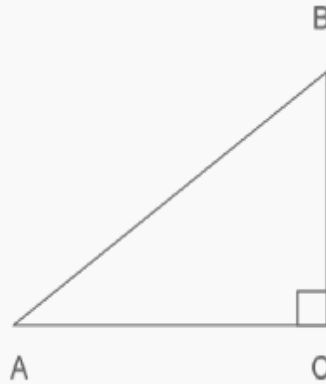
Put answer in simplest form!

Instructions: Find the length of the missing side.

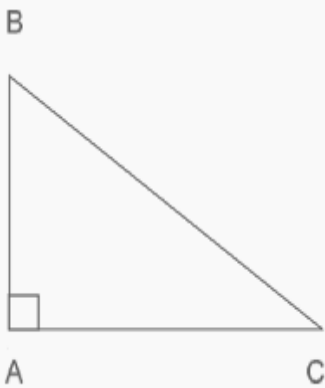
1. If $AB = 8$ and $AC = 4$, then what is the length of BC ?



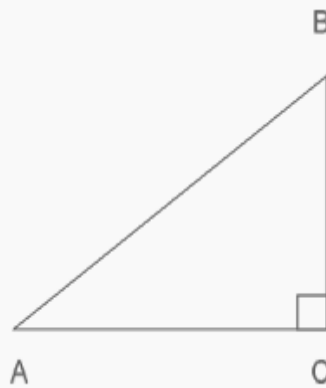
2. If $AC = 8$ and $BC = 6$, then what is the length of AB ?



3. If $AB = 5$ and $BC = 10$, then what is the length of AC ?



4. If $AB = 26$ and $BC = 10$, then what is the length of AC ?

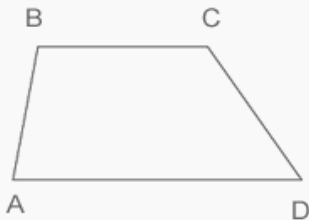


Areas of Polygons

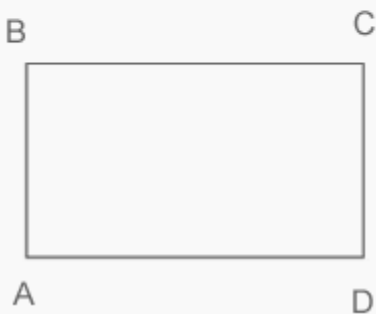
1. Which of the following describes a correct method of finding the area of a trapezoid?



- compose a right triangle, find its area, then divide the area by 2
 - compose a parallelogram, find its area, then divide the area by 2
 - decompose into 2 right triangles, find the area of 1 triangle, then multiply the area by 2
 - decompose into 2 parallelograms, find the area of 1 parallelogram, then multiply the area by 2
2. Calculate the area of the trapezoid if \overline{AD} measures 10 cm, \overline{BC} measures 8 cm and the height is 5 cm.



3. What is the area of a triangle with a base of 16 inches and a height of 12 inches?
- 96 square inches
 - 48 square inches
 - 36 square inches
 - 86 square inches
4. Draw a diagonal from B to D.
 \overline{BC} measures 12 m and \overline{AB} measures 4 m.
What is the area of right triangle ABD?

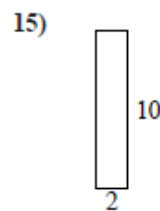
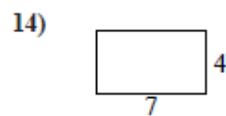
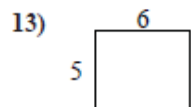
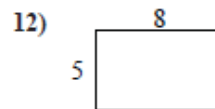
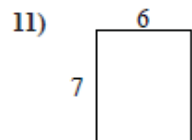
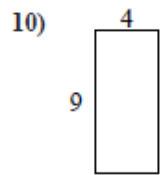
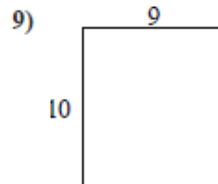
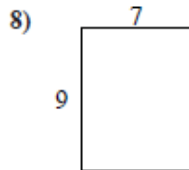
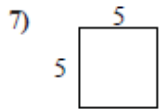
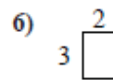
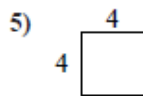
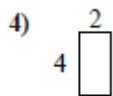
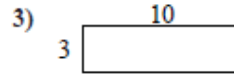
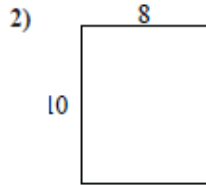
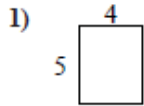


Volume

1. What is the volume of a box that is 2 feet long, 1 foot long, and 2 feet tall?
 - a. 3 cubic feet
 - b. 4 cubic feet
 - c. 5 cubic feet
 - d. 6 cubic feet
2. What is the volume of a cereal box that is 8 inches long, 12 inches tall, and 3 inches wide?
 - a. 23 cubic inches
 - b. 96 cubic inches
 - c. 132 cubic inches
 - d. 288 cubic inches
3. A cube measures 4 cm on a side. What is the volume of the cube?
 - a. 4 cubic cm
 - b. 12 cubic cm
 - c. 16 cubic cm
 - d. 64 cubic cm
4. A compost container is 4 feet long, 3 feet wide, and 2 feet high. What is the volume of the compost container?
 - a. 9 cubic feet
 - b. 18 cubic feet
 - c. 24 cubic feet
 - d. 72 cubic feet
5. What is the height of a right rectangular prism that has a width of 5 cm, length of 6 cm, and a volume of 240 cubic cm?
 - a. 7 cm
 - b. 8 cm
 - c. 11 cm
 - d. 30 cm

Area and Perimeter

Find the perimeter and area of each figure. Each figure is in inches (in). Not to scale.



Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____