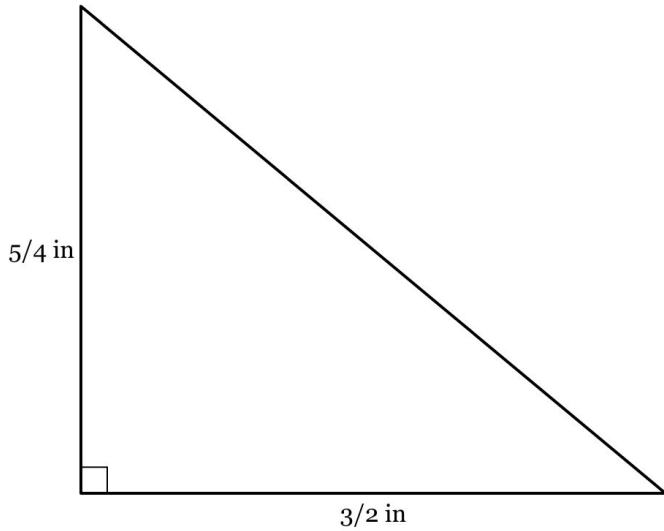
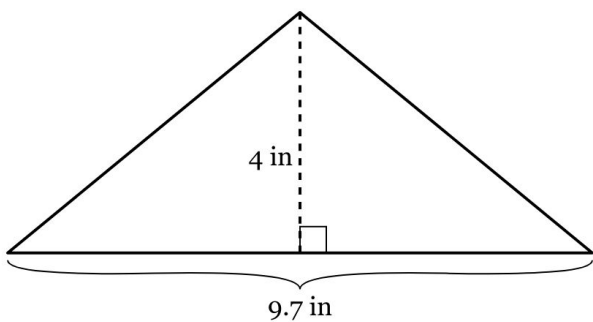


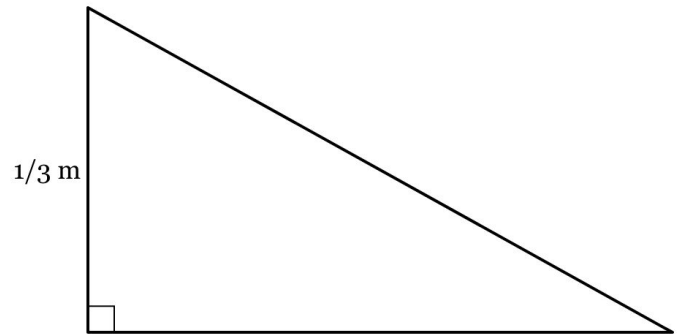
1. What is the area, in square inches, of the shape below?  
Express your answer as a fraction in simplest form.



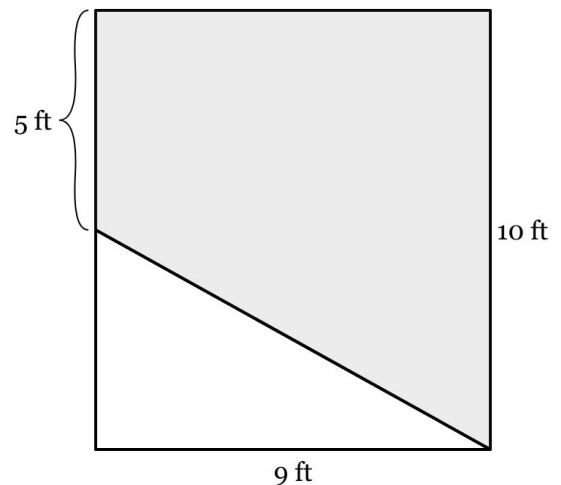
2. What is the area, in square inches, of the shape below?



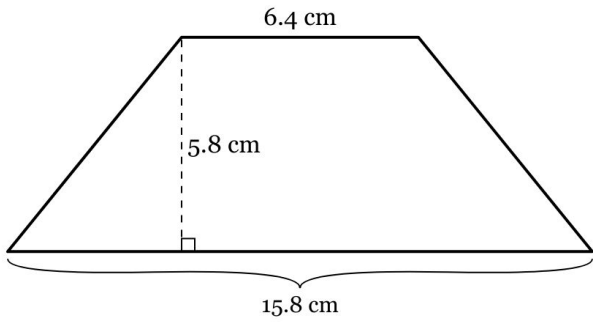
3. The area of the triangle below is  $\frac{1}{10}$  square meters.  
What is the length of the base? Express your answer as a fraction in simplest form.



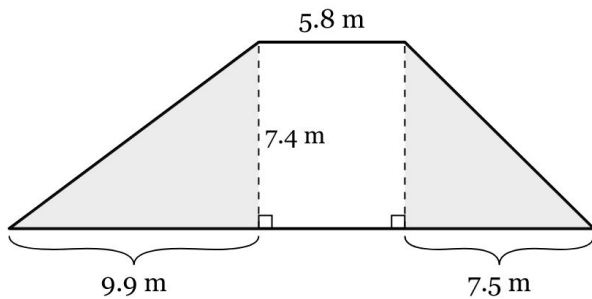
4. What is the area, in square feet, of the shaded part of the rectangle below?



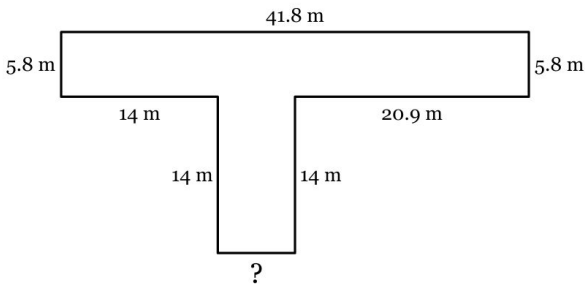
5. What is the area, in square centimeters, of the isosceles trapezoid below?



6. What is the total area, in square meters, of the shaded sections of the trapezoid below?

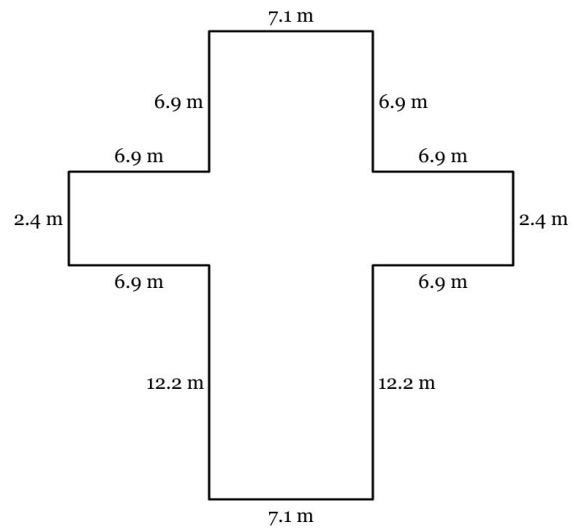


7. The perimeter of the figure below is 122.4 m. Find the length of the missing side.



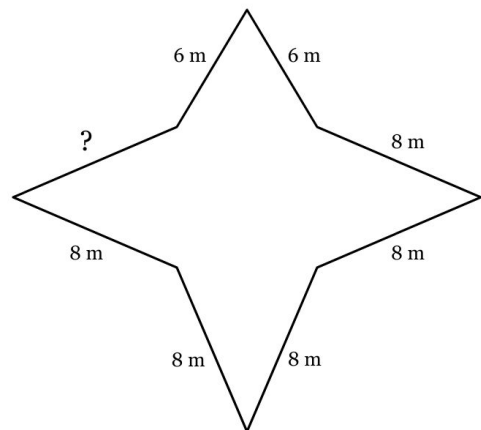
(Note: diagram is NOT to scale)

8. Find the perimeter of the figure below, in meters.



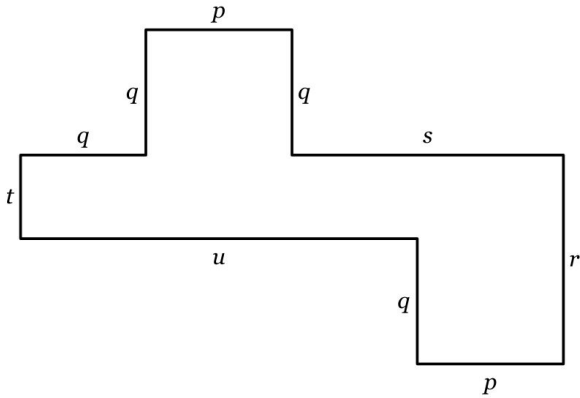
(Note: diagram is NOT to scale)

9. The perimeter of the figure below is 59.8 m. Find the length of the missing side.

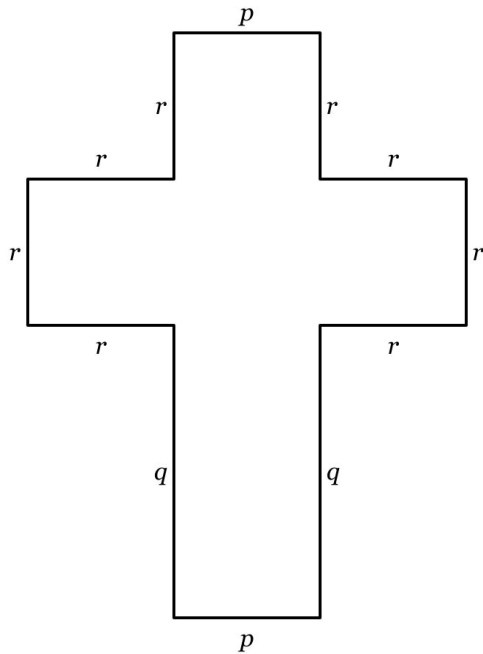


(Note: diagram is NOT to scale)

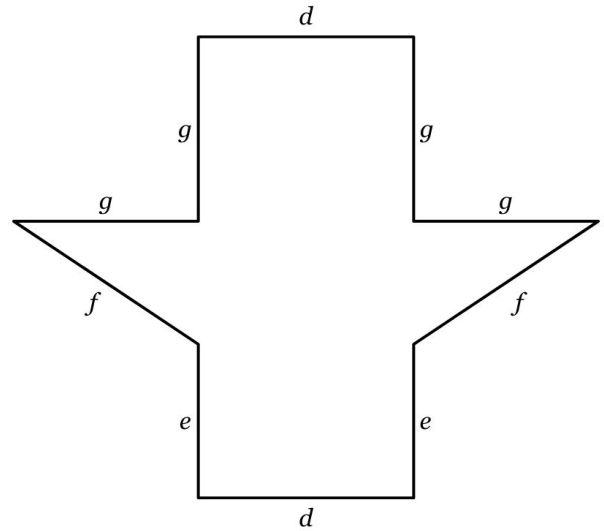
10. Write an expression that represents the perimeter of the figure below. Write your answer in simplified form.



11. Write an expression that represents the perimeter of the figure below. Write your answer in simplified form.



12. Write an expression that represents the perimeter of the figure below. Write your answer in simplified form.



13. What is the volume, in cubic cm, of a rectangular prism with a height of 3cm, a width of 2cm, and a length of 18cm?

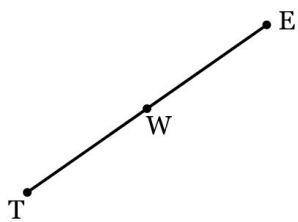
14. A rectangular prism has a length of 19in, a height of 10in, and a width of 6in. What is its volume, in cubic in?

15. A cube has an edge length of 9 meters. What is its volume, in cubic meters?

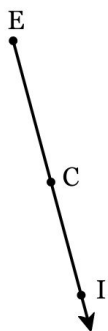
16. Name the figure below in two different ways.



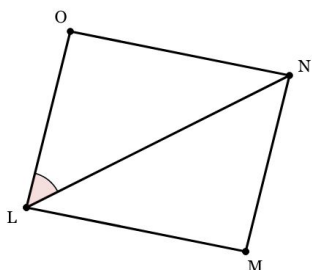
17. Name the figure below in two different ways.



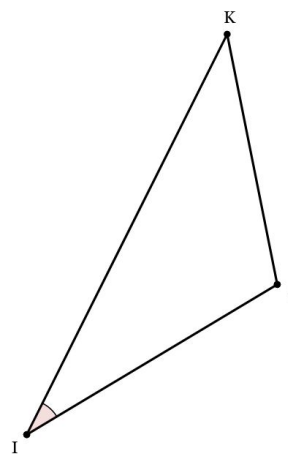
18. Name the figure below in two different ways.



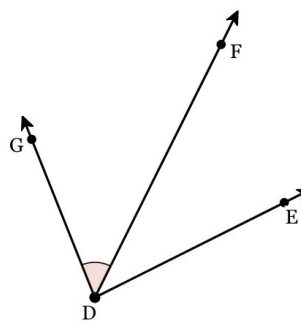
19. Name the marked angle in 2 different ways.



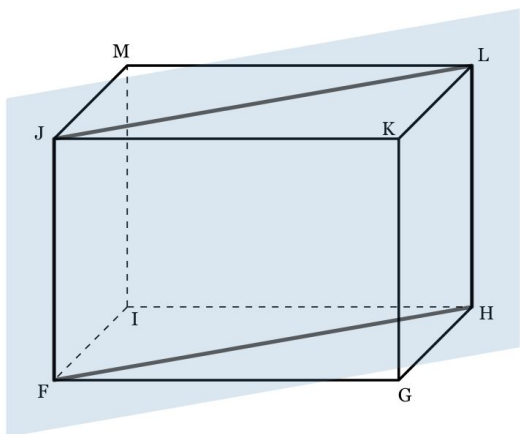
20. Name the marked angle in 2 different ways.



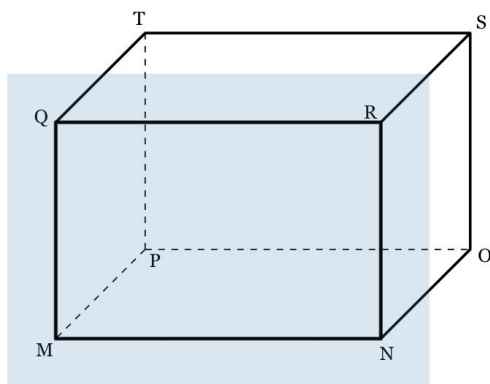
21. Name the marked angle in 2 different ways.



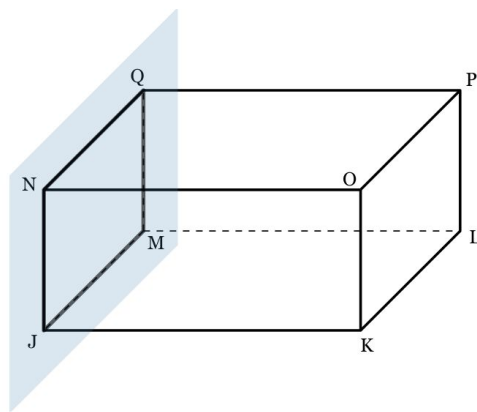
22. Name the plane that is highlighted in the diagram below.



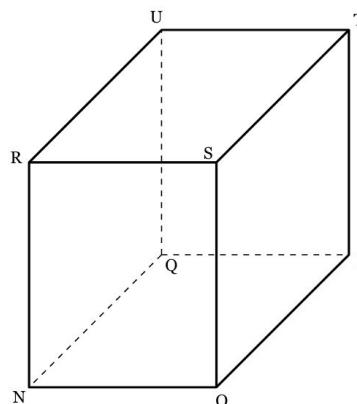
23. Name the plane that is highlighted in the diagram below.



24. Name the plane that is highlighted in the diagram below.



25. The diagram below is a right rectangular prism. All the angles shown measure  $90^\circ$ . Complete the following sentence.

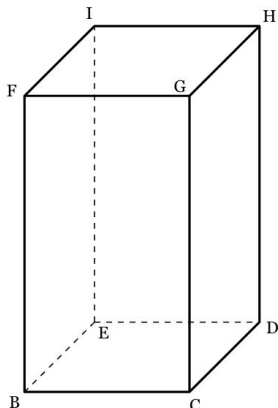


Plane  $POQ$  and plane  $RUS$

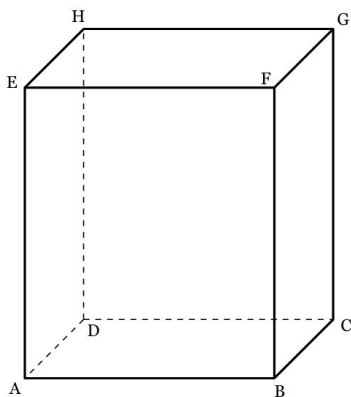
word bank

Word bank: (a) are parallel, (b) are perpendicular, (c) intersect but aren't necessarily perpendicular

26. The diagram below is a right rectangular prism. All the angles shown measure  $90^\circ$ . Name two segments drawn on the diagram below that are skew.



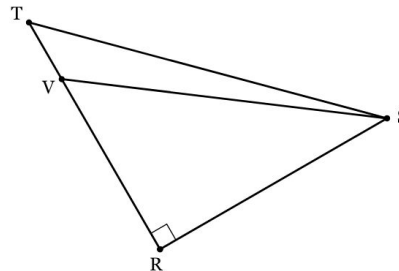
27. The diagram below is a right rectangular prism. All the angles shown measure  $90^\circ$ . Complete the following sentence.



$\overline{DA}$  and  $\overline{HE}$  are \_\_\_\_\_.  
word bank

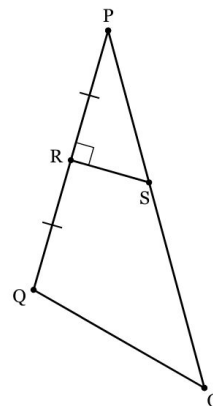
Word bank: (a) parallel, (b) perpendicular, (c) skew

28. Which of the following statements must be true based on the diagram below? Select all that apply. (Diagram is not to scale.)



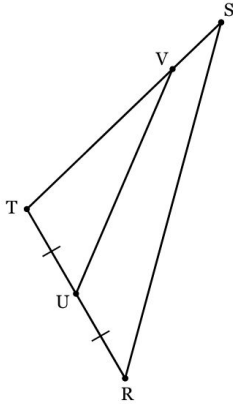
- $\overline{SV}$  is a segment bisector.
- $\overline{SV}$  is an angle bisector.
- $S$  is the vertex of a pair of congruent angles in the diagram.
- $V$  is the vertex of a pair of congruent angles in the diagram.
- $V$  is the vertex of a right angle.
- None of the above.

29. Which of the following statements must be true based on the diagram below? Select all that apply. (Diagram is not to scale.)



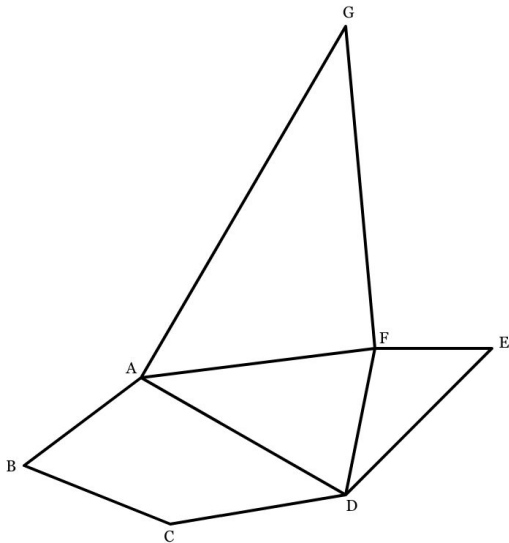
- $\overline{RS}$  is a segment bisector.
- $\overline{RS}$  is a perpendicular bisector.
- $S$  is the vertex of a pair of congruent angles in the diagram.
- $R$  is the vertex of a right angle.
- $R$  is the midpoint of a segment in the diagram.
- None of the above.

30. Which of the following statements must be true based on the diagram below? Select all that apply. (Diagram is not to scale.)

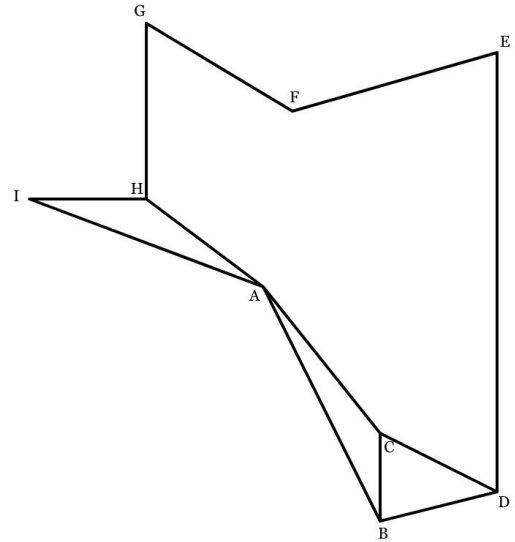


- $\overline{UV}$  is a segment bisector.
- $U$  is the vertex of a pair of congruent angles in the diagram.
- $V$  is the vertex of a pair of congruent angles in the diagram.
- $U$  is the vertex of a right angle.
- $V$  is the midpoint of a segment in the diagram.
- None of the above.

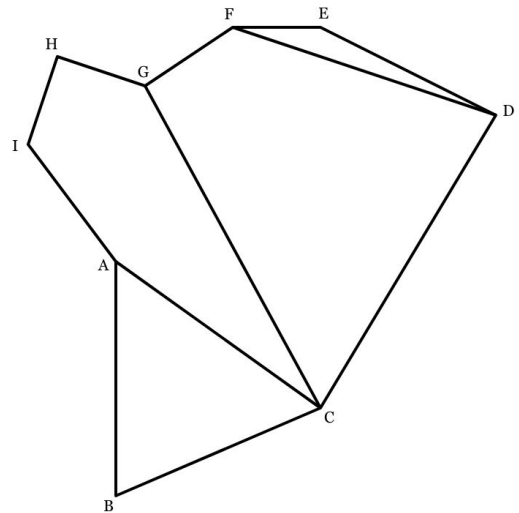
31. Identify  $\angle EFD$  by marking it with an arc on the diagram.



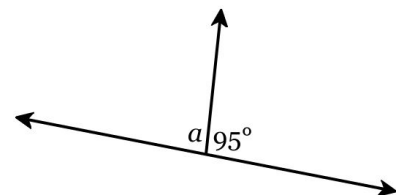
32. Identify  $\angle ABC$  by marking it with an arc on the diagram.



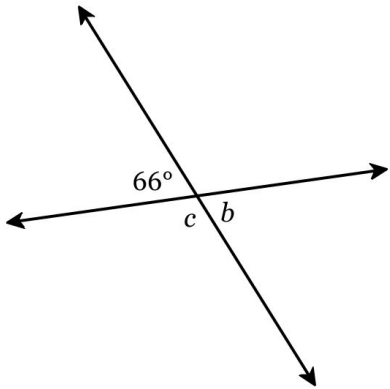
33. Identify  $\angle ACG$  by marking it with an arc on the diagram.



34. Find the measure of the missing angle.

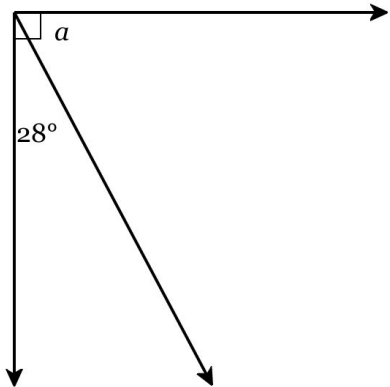


35. Find the measure of the missing angles.



$b = \underline{\hspace{1cm}}^\circ$        $c = \underline{\hspace{1cm}}^\circ$

36. Find the measure of the missing angle.



37. The diameter of a circle is 18 ft. Find its circumference in terms of  $\pi$ .

38. The radius of a circle is 5 in. Find its circumference in terms of  $\pi$ .

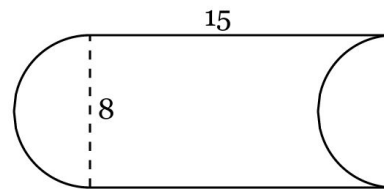
39. The radius of a circle is 4 ft. Find its circumference in terms of  $\pi$ .

40. The circumference of a circle is  $17\pi$  cm. Find its radius, in centimeters.

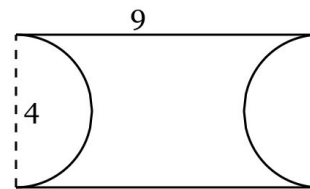
41. The circumference of a circle is  $18\pi$  cm. Find its diameter, in centimeters.

42. The circumference of a circle is  $17\pi$  ft. Find its diameter, in feet.

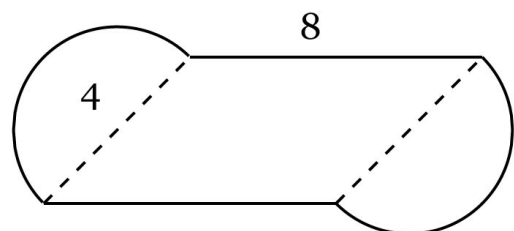
43. Find the Perimeter of the figure below, composed of a rectangle and two semicircles. Round to the nearest tenths place.



44. Find the Perimeter of the figure below, composed of a rectangle and two semicircles. Round to the nearest tenths place.



45. Find the Perimeter of the figure below, composed of a parallelogram and two semicircles. Round to the nearest tenths place.



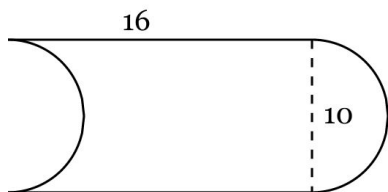


46. The circumference of a circle is  $18\pi$  ft. What is the area, in square feet? Express your answer in terms of  $\pi$ .

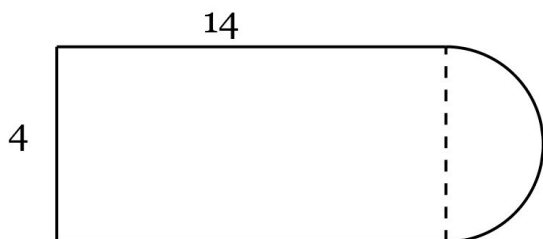
47. The area of a circle is  $100\pi$  m<sup>2</sup>. What is the circumference, in meters? Express your answer in terms of  $\pi$ .

48. The circumference of a circle is  $22\pi$  cm. What is the area, in square centimeters? Express your answer in terms of  $\pi$ .

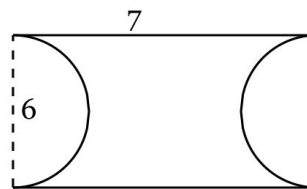
49. Find the Area of the figure below, composed of a rectangle and one semicircle, with another semicircle removed. Round to the nearest tenths place.



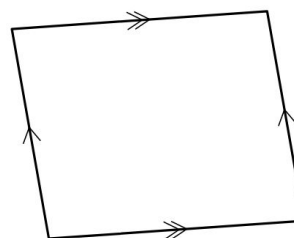
50. Find the Area of the figure below, composed of a rectangle and a semicircle. Round to the nearest tenths place.



51. Find the Area of the figure below, composed of a rectangle with two semicircles removed. Round to the nearest tenths place.



52. Fill in the sentence below with the description that **most specifically** applies to the quadrilateral below.



The quadrilateral is most specifically a \_\_\_\_\_, word bank 1

because \_\_\_\_\_ word bank 2.

Word bank 1: (a) rectangle, (b) trapezoid, (c) parallelogram, (d) square

Word bank 2: (a) all sides are congruent, (b) no sides are congruent or parallel, (c) both pairs of sides are parallel, (d) it is equilateral and all angles are congruent