

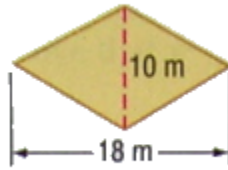
Geometry
8-2 Worksheet

Find the area of each trapezoid, rhombus or kite.

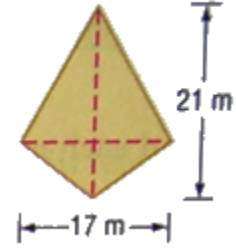
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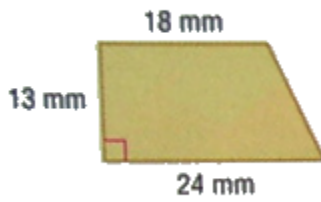
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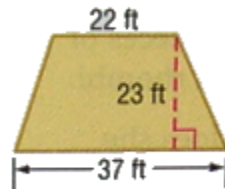
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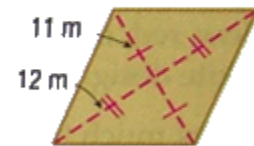
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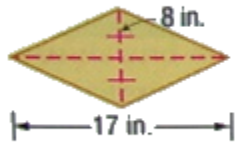
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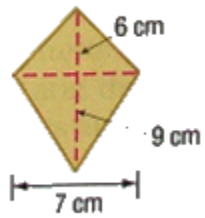
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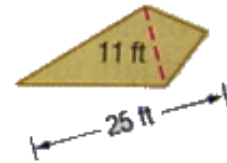
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8.

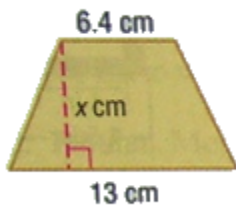


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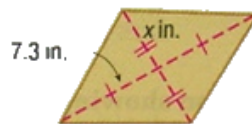


Find the value of x .

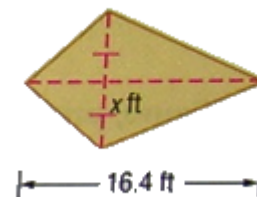
10. $A=78 \text{ cm}^2$



11. $A=96 \text{ in}^2$



12. $A=104 \text{ ft}^2$



13. One diagonal of a kite is twice as long as the other diagonal. If the area of the kite is 240 square inches, what are the lengths of the diagonals?

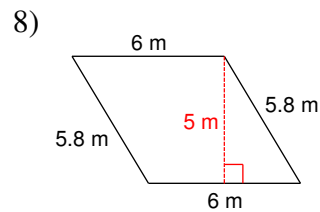
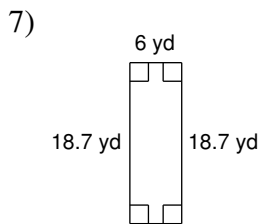
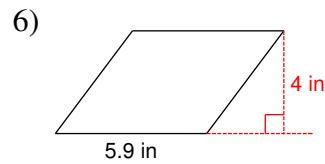
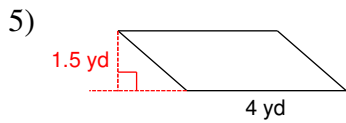
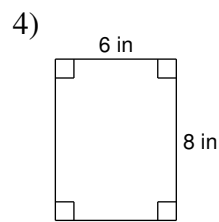
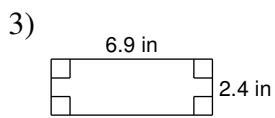
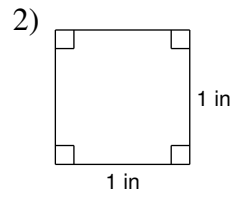
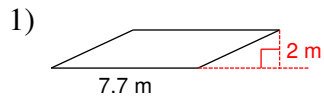
14. The area of a rhombus is 168 square centimeters. If one diagonal is three times as long as the other, what are the lengths of the diagonals?

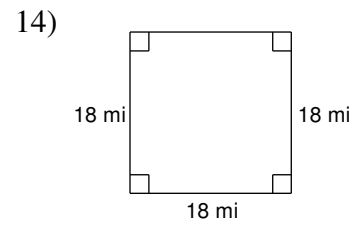
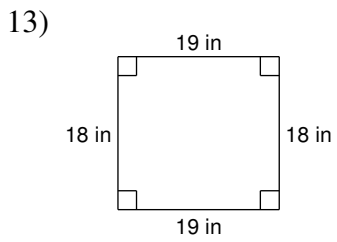
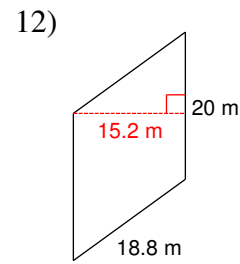
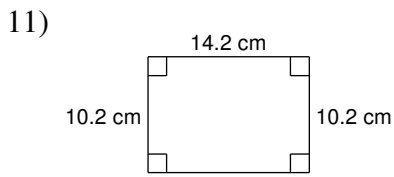
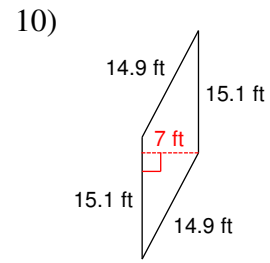
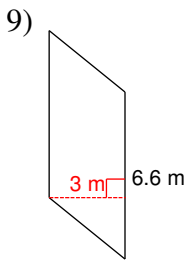
15. A trapezoid has a height of 8 meters, a base length of 12 meters, and an area of 64 square meters. What is the length of the other base?

16. Antonio and Madeline want to draw a trapezoid that has a height of 4 units and an area of 18 square units. Antonio says that only one trapezoid will meet the criteria. Madeline disagrees and thinks that she can draw several trapezoids with a height of 4 units and an area of 18 square units. Is either of them correct? Explain your reasoning.

Area of Squares, Rectangles, and Parallelograms

Find the area of each.

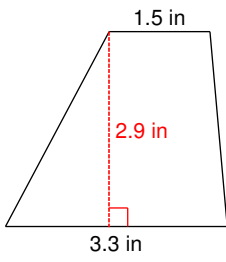




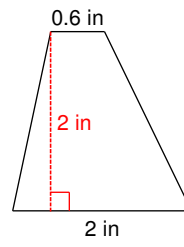
Area of Trapezoids

Find the area of each.

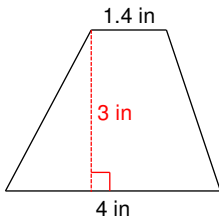
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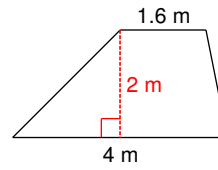
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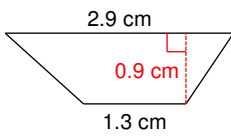
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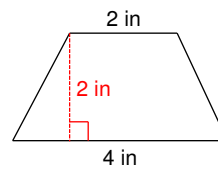
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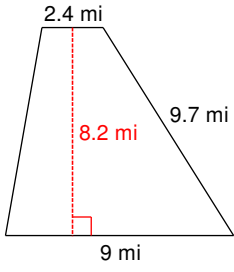
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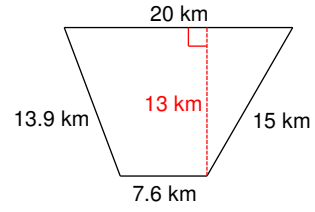
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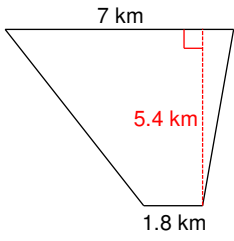
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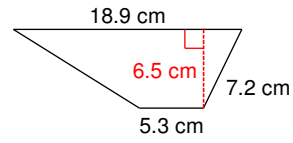
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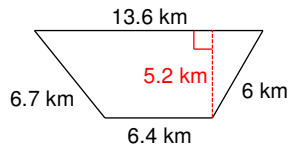
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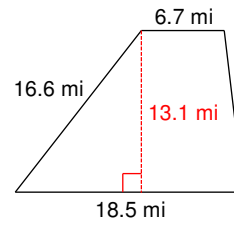
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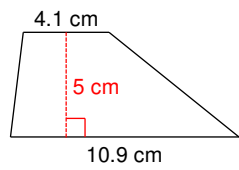
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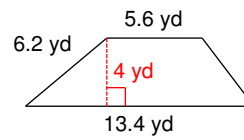
12)



13)



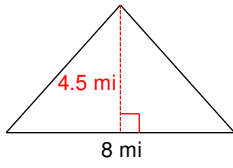
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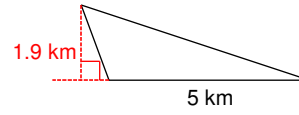
Area of Triangles

Find the area of each.

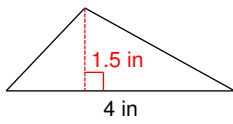
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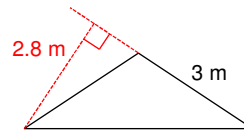
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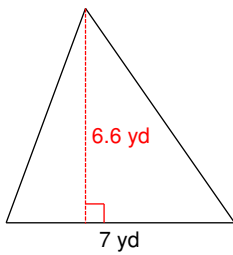
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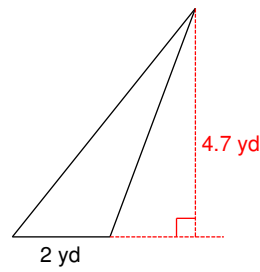
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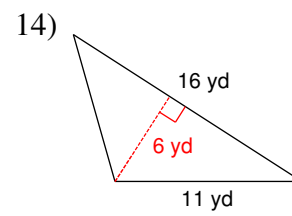
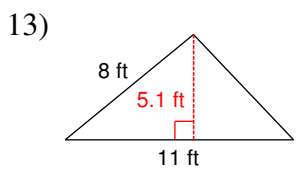
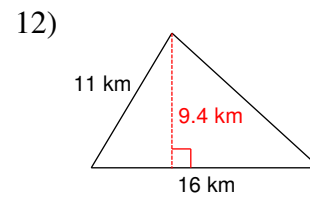
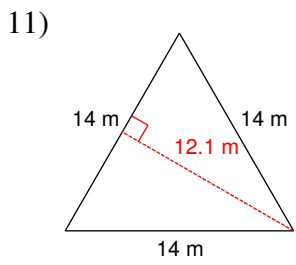
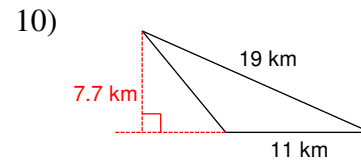
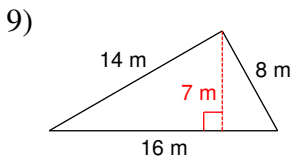
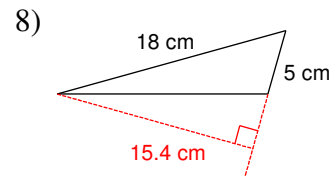
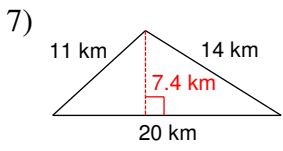


5)



6)

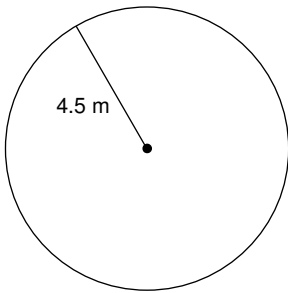




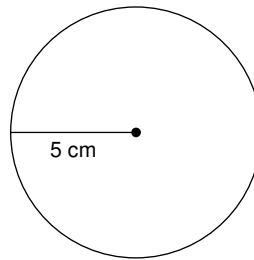
Circles

Find the circumference of each circle. Round to the nearest tenth.

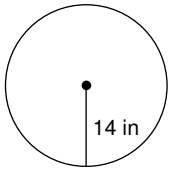
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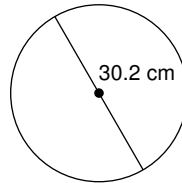
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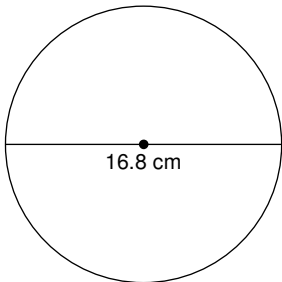
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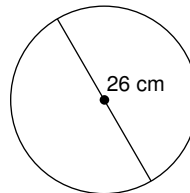
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5)



6)

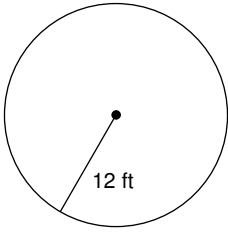


7) radius = 12 yd

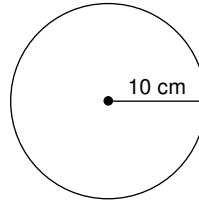
8) radius = 5.5 mi

Find the area of each. Round to the nearest tenth.

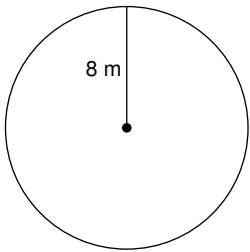
9)



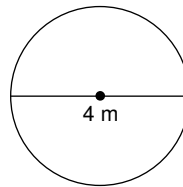
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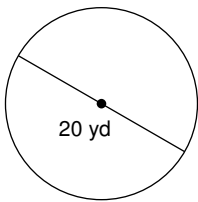
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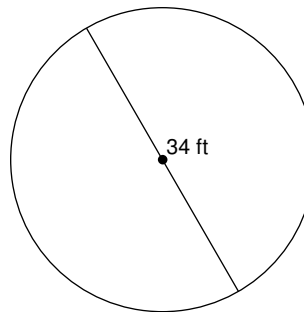
12)



13)



14)



15) radius = 8 ft

16) radius = 5 cm

Find the diameter of each circle.

17) area = 4π in²

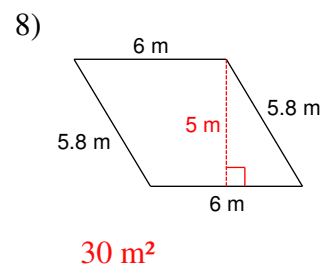
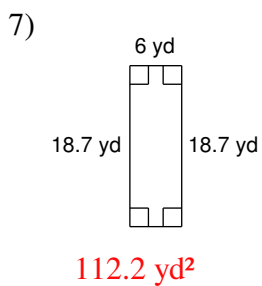
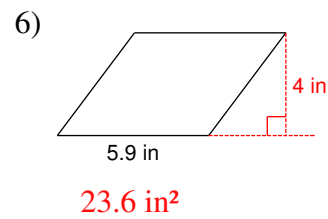
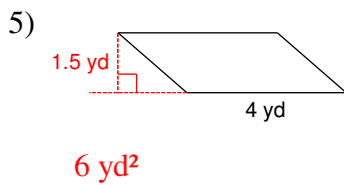
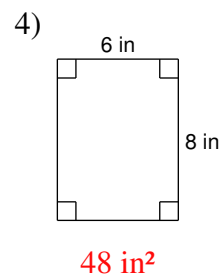
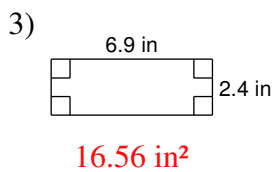
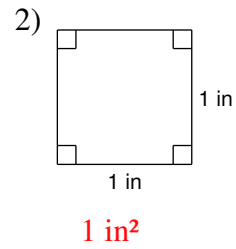
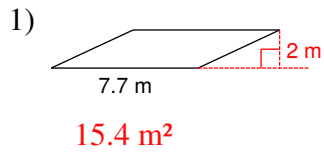
18) area = 49π yd²

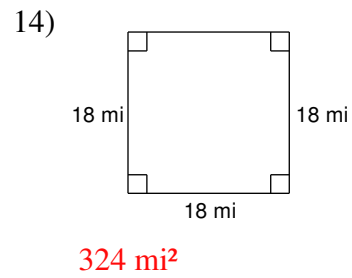
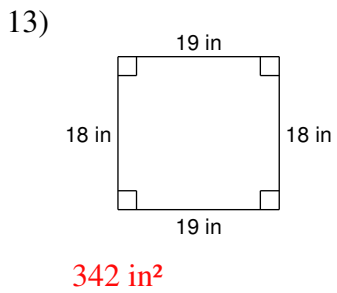
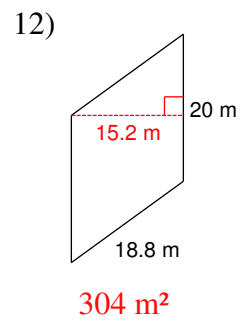
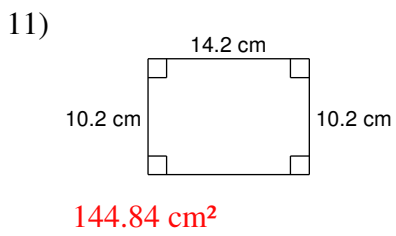
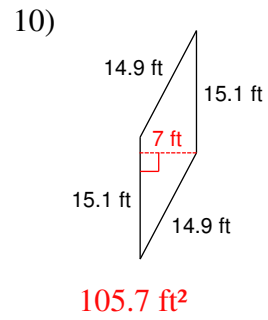
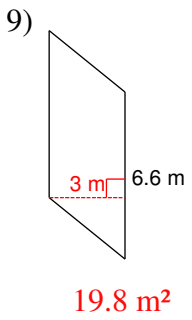
19) circumference = 162π yd

20) circumference = 30π yd

Area of Squares, Rectangles, and Parallelograms

Find the area of each.

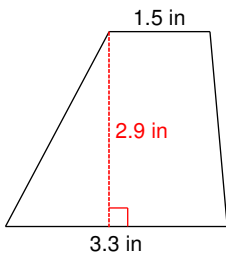




Area of Trapezoids

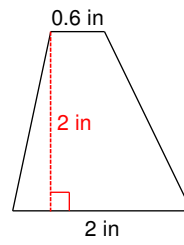
Find the area of each.

1)



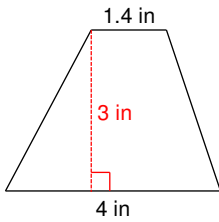
6.96 in^2

2)



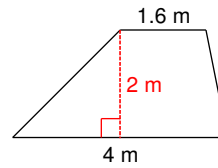
2.6 in^2

3)



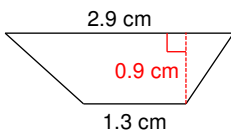
8.1 in^2

4)



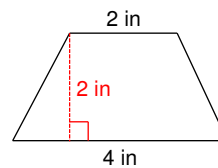
5.6 m^2

5)

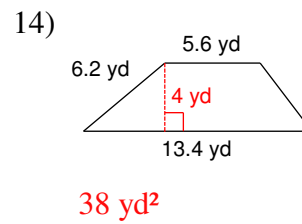
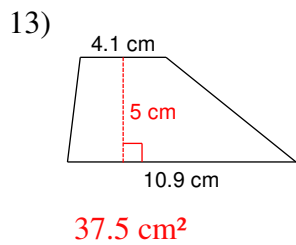
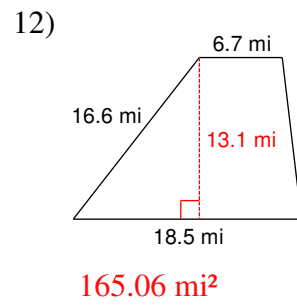
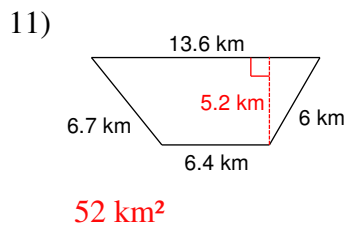
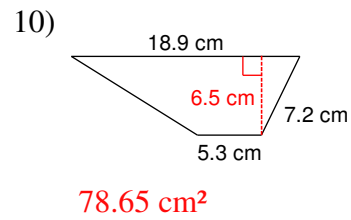
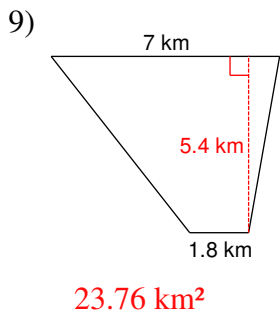
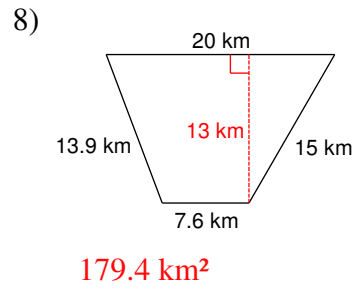
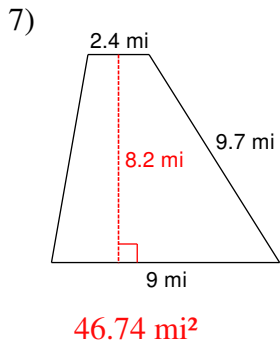


1.89 cm^2

6)



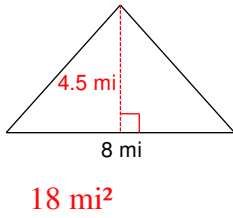
6 in^2



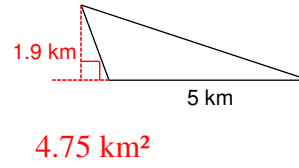
Area of Triangles

Find the area of each.

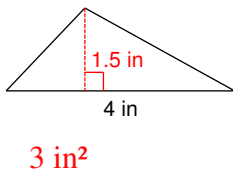
1)



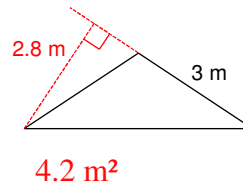
2)



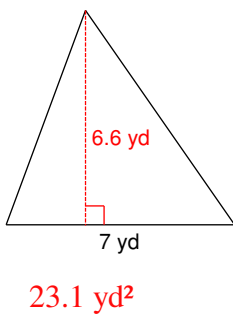
3)



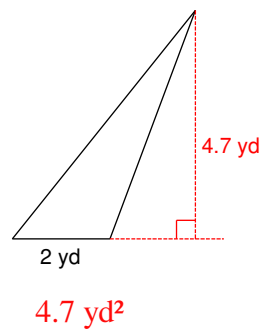
4)

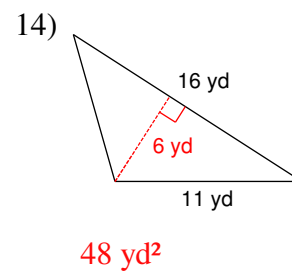
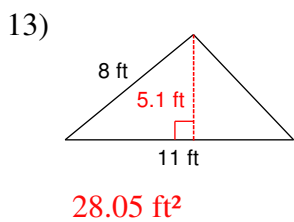
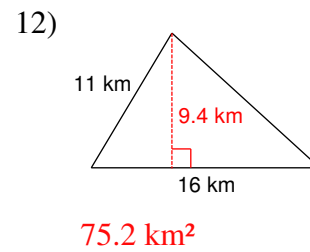
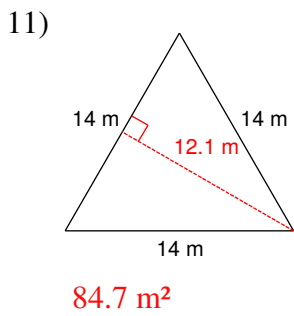
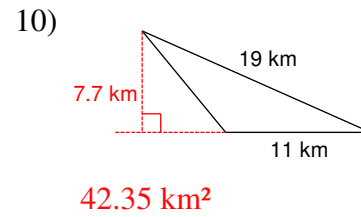
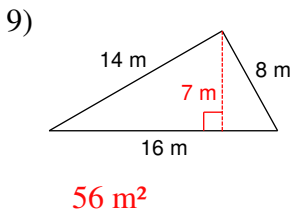
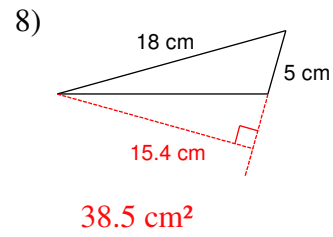
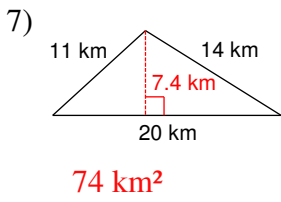


5)



6)

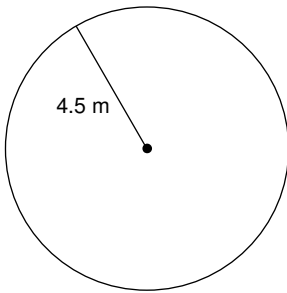




Circles

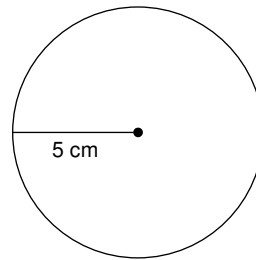
Find the circumference of each circle. Round to the nearest tenth.

1)



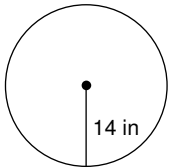
28.3 m

2)



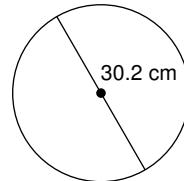
31.4 cm

3)



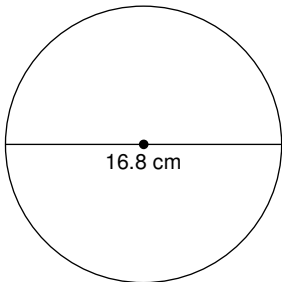
88 in

4)



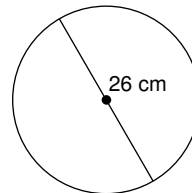
94.9 cm

5)



52.8 cm

6)



81.7 cm

7) radius = 12 yd

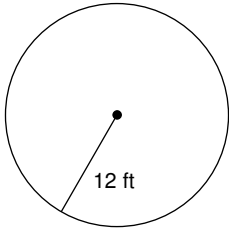
75.4 yd

8) radius = 5.5 mi

34.6 mi

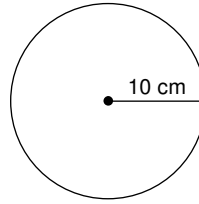
Find the area of each. Round to the nearest tenth.

9)



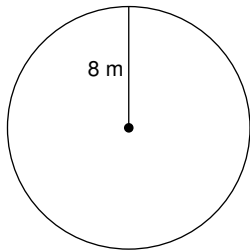
452.4 ft²

10)



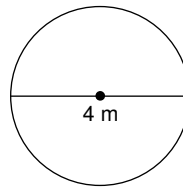
314.2 cm²

11)



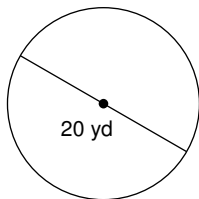
201.1 m²

12)



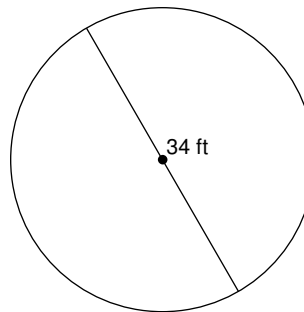
12.6 m²

13)



314.2 yd²

14)



907.9 ft²

15) radius = 8 ft

201.1 ft²

16) radius = 5 cm

78.5 cm²

Find the diameter of each circle.

17) area = 4π in²

4 in

18) area = 49π yd²

14 yd

19) circumference = 162π yd

162 yd

20) circumference = 30π yd

30 yd