

Area 4.1
Geometry

Find the missing measure.

1) Trapezoid
 $b = 8 \text{ cm}$
 $b = 12 \text{ cm}$
 $h = 5 \text{ cm}$
 Area

2) Triangle
 $b = 15 \text{ mm}$
 $h = 41 \text{ mm}$
 Area =

3) Rectangle
 $b =$
 $h = 34 \text{ ft}$
 Area = $1,904 \text{ ft}^2$

4) Rhombus
 $d_1 = 7 \text{ in}$
 $d_2 = 12 \text{ in}$
 Area =

5) Trapezoid
 $b = 10 \text{ mm}$
 $b = 16 \text{ mm}$
 $h =$
 Area = 117 mm^2

6) Triangle
 $b =$
 $h = 10 \text{ dm}$
 Area = 85 dm^2

7) Parallelogram
 $b = 75 \text{ km}$
 $h = 64 \text{ km}$
 Area =

8) Rhombus
 $d_1 = 6 \text{ m}$
 $d_2 =$
 Area = 27 m^2

9) Circle
 radius = 5 in
 diameter =
 Circum. =
 =
 Area =
 =

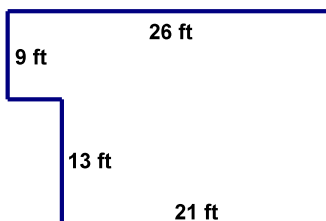
10) Circle
 radius =
 diameter =
 Circum. = $78\pi \text{ mm} =$
 Area =
 =

11) Circle
 $r =$
 $d =$
 $C = 155 \text{ m}$
 $A =$
 =

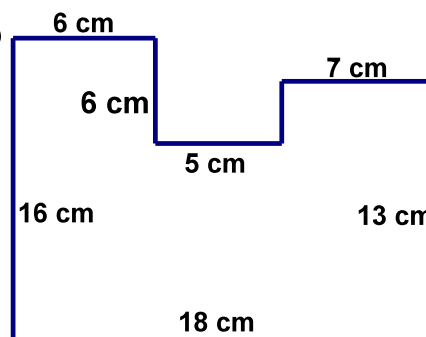
12) Circle
 $r =$
 $d =$
 $C =$
 =
 $A = 94 \text{ ft}^2$

Find the area of each figure.

13)

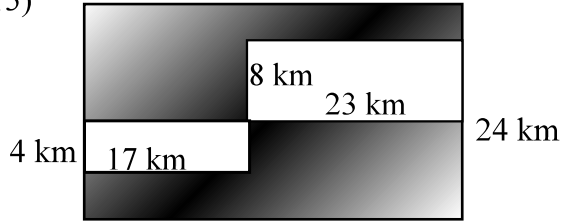


14)

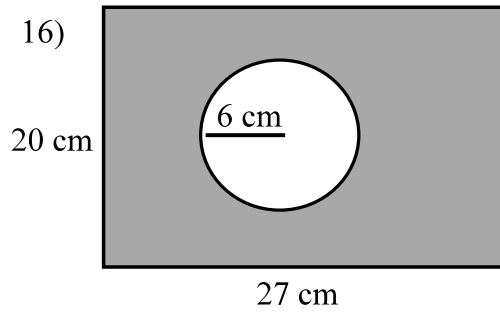


Find the area of the shaded region.

15)



16)



Madison is having her front room floor carpeted. The dimensions of her front room are 6 yds by 7 yds.

- 17) What is the area of the floor?
- 18) How much carpet will she need to purchase to cover the floor?
- 19) How much will Madison's carpet cost at \$10/yd²?
- 20) How much will she spend if each square yard costs \$23?

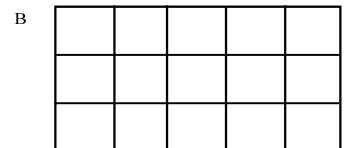
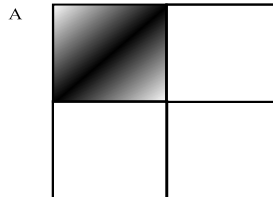
Janice is tiling a floor. The dimensions of the floor are 16 ft. by 12 ft. The tiles measure 6 in. by 6 in..

- 21) What are the dimensions of the floor in inches?
- 22) What is the area of the floor?
- 23) What is the area of each tile?
- 24) How many tiles will Janice need to cover the floor? What question helps you find this?
- 25) What will Janice spend for the tiles if they cost \$.30 each?
- 26) What will she spend if each tile costs \$.46?

27) If a chimpanzee throws a dart at dartboard A, what is the probability that he will hit the colored square?

28) If the chimp throws the dart at dartboard B, what is the probability that he will hit the middle column?

29) And if the chimp throws at dartboard B, what is the probability he will hit the top or bottom row?



30) Workers lay a 15 ft x 20 ft concrete slab which will serve as a floor for a shop. What is the probability that a bird will land in a marked 5 ft x 5 ft square on the slab? What is the probability the bird will land in a marked 10 ft x 10 ft square?

31) A delivery man drives a truck with a windshield that is 30 in. x 60 in. A car in front of him kicks up a rock that is coming toward the windshield. What is the probability that the rock will hit the 6in. x 6 in. square directly in front of the driver's eyes? What is the probability that the rock hits a 12 in. x 15 in. area directly in front of the passenger's eyes?