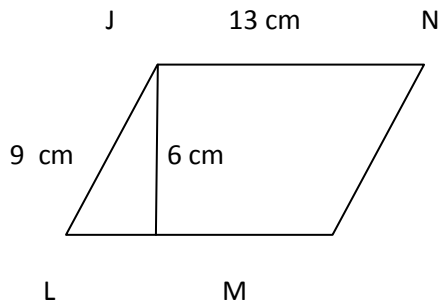


Grade 7 Math UNIT 4: Review of Circles, Perimeter and Area Name: _____

1. A) What is the area of this parallelogram?

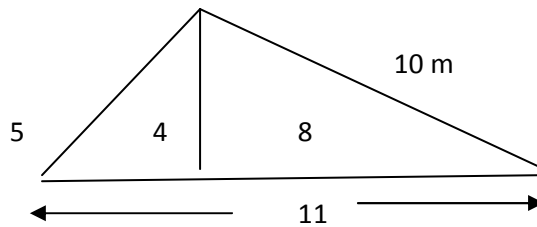


B) What is the base? _____

C) What is the height? _____

2. A triangle:

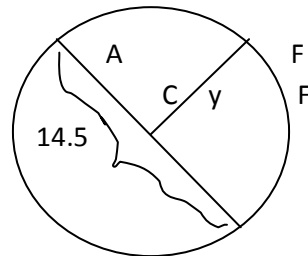
A) What is the area of this triangle?



B) What is the perimeter of the triangle?

3. In the diagram,

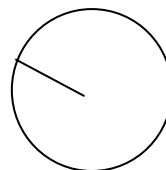
A) what is the missing value for y ? (C is center)



B) What is the circumference of the circle?

4. A circle with radius 18 cm:

A) What is the diameter? _____



B) What is the area? _____

C) What is the circumference? _____

5. In this square:

15.4



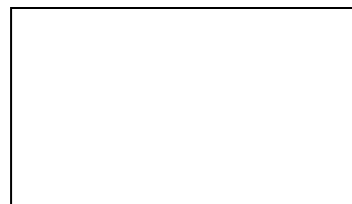
A) What is the perimeter?

B) What is the area of the square?

6. In this rectangle:

A) What is the perimeter?

6

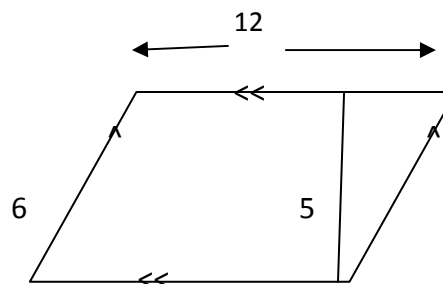


8.3

B) What is the area of the rectangle?

7. In this parallelogram:

A) What is the perimeter?



B) What is the area of the parallelogram?

8. Define:

A) circle _____

B) diameter _____

C) radius _____

D) Center of a circle _____

9. Complete the following:

WORD LIST: circumference diameters area radii perimeter

A) ALL _____ of a circle are equal.

B) ALL _____ of a circle pass through the center and contact the circle in two points.

C) _____ is distance around an object. (units - cm, m, etc)

D) _____ is square units which take up the space of the object. (units – cm^2 , m^2 , etc)

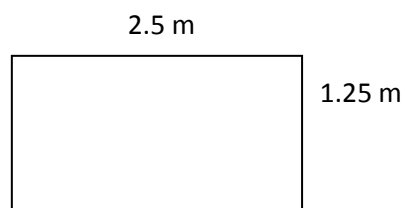
E) _____ is the distance around a circle.

10. Circular hats with diameter 25 cm are selling at your store. You have a box 2.5 m by 1.25 m.

With a diagram to help each answer:

A) What is the length in cm? _____

B) What is the width in cm? _____



C) How many hats fit along the length side? _____

D) How many hats fit along the width side? _____

E) How many hats can fit in the box? _____

F) How many hats can fit around the perimeter of the box? _____

11. Draw a circle with radius 4 cm using a compass.

12. Draw a circle with diameter 10 cm without using a compass.

13. How can you find the exact value for π ? Explain.

FORMULAS TO KNOW:

$$d = 2r$$

$$C = \pi d$$

$$A = \pi r^2$$

$$A = s^2$$

$$A = \frac{1}{2} bh$$

$$r = \frac{1}{2} d$$

$$C = 2\pi r$$

$$A = l \times w$$

$$A = bh$$