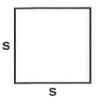
AREA

Identify and Calculate the Area

for each Quadrilateral.

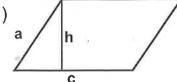
1)



s = 59 cm

Area:

2)



 $a = 60.45 \, \text{mm}$

c = 94 mm h = 56 mm

Area:

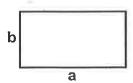
3)

a = 59.71 cm

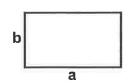
c = 81 cm = h = 55 cm

Area:

4)

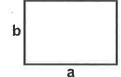


a = 83 cm b = 44 cm 5)



b = 43 mma = 76 mm

6)

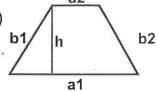


b = 50 mma = 73 mm

Area:

Area:

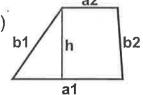
Area:



a1 = 100 cm a2 = 37 cm b1 = 63.06 cm b2 = 61.99 cmh = 54 cm

Area:

8)



a1 = 88 mm a2 = 44 mm, s = 56 mmb1 = 68.79 mm b2 = 56.15 mm

Area:

h = 56 mm

9)



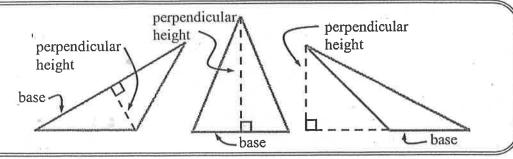
Area:

1. a. Determine the area of the shaded region.

	al.			
1000 AND 1000		131		410
APRIL 1885 1885 1885 1885 1885 1885 1885 188	100 PM		200	

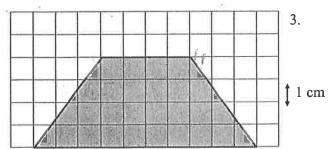
The area of a triangle is $A = \frac{bh}{2}$, where b is the length of the base and h is the

perpendicular height.

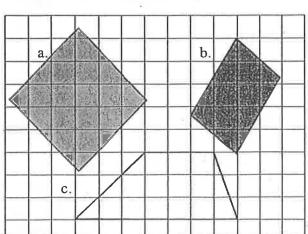


Complete the table.

	Area of Triangles	
Base	Height	Area
3 cm	2 cm	*)
4.5 m		9 m²
5 cm		7 cm ²
	1 km	1 km²
7 mm	2.6 mm	

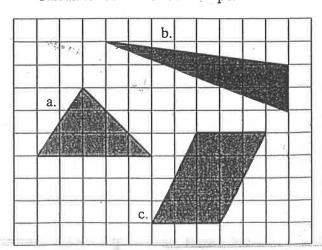


- a. Estimate the area
- of the trapezoid.
- b. Calculate the exact area of the trapezoid by using the formula $A = \frac{(a+b)h}{2}$.
- 4. The area of each square of the grid is 1 cm². 5. Estimate the area of each shape.



The area of each square of the grid is 1 cm².

Calculate the area of each shape.



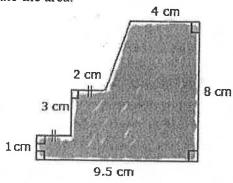
Find the

6.

- a. accorda trapezoid with the given measurements, where the first two are the parallel sides and the third is its height.
 - 12 cm, 6 cm, 5 cm
- ii. 10 cm, 4 cm, 6 cm

iii. 5 cm, 2 cm, 3 cm

7. Calculate the area.



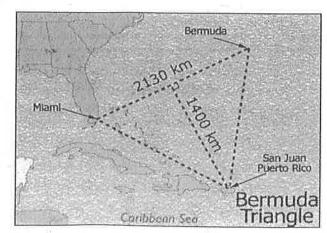
Slice of History

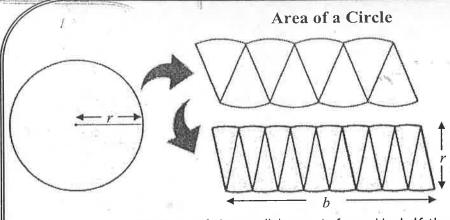
A metre was initially defined to be one ten-millionth of the length of a line from the North Pole to the Equator, going through Paris. In 1983, a metre was redefined as the length of the path travelled by light in a vacuum during a time interval of $\frac{1}{299792458}$

of a second.



- Matt is constructing a rectangular backyard. He wants to cover the backyard with grass and put a 8. fence around all four sides.
 - a. The sod will cost \$ 2.45 per square metre. Matt's budget for sod is \$110.25. What is the area of the lawn?
- The Bermuda Triangle is a region in the Atlantic Ocean famous for many mysterious tragedies. The base of the triangle - the distance between Bermuda and Miami - is approximately 2130 km. The height of the triangle, stretching between Puerto Rico and the midpoint of the base, is approximately 1400 km. What is the area of the Bermuda Triangle?





The circle is cut in half, and each half is divided into four equal segments.

As such division gets finer and finer, the segments fit together to form a figure that is roughly a parallelogram.

The base of the parallelogram is formed by half the circumference of the circle. The area of circle is $A = b \times r$

$$= \frac{1}{2} \times C \times r$$

$$= \frac{1}{2} \times 2 \times \pi \times r \times r \quad \text{(since CTF2)}$$

$$= \pi \times r^{2}$$

The formula for the area of a circle is $A = \pi r^2$.

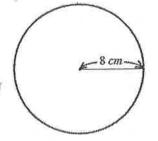
- Calculate the area of each circle that has:
 - a. radius of 5 cm.

- b. radius of 4.7 m. c. diameter of 8 cm. d. diameter of 3.2 cm.
- Calculate the area

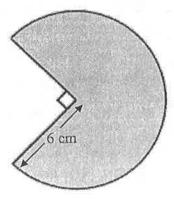
of each circle, correct to two decimal places.

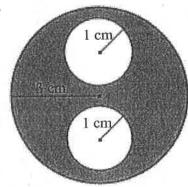


b.

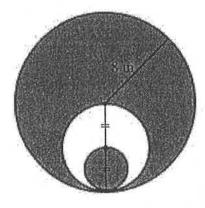


- The hoot of a lost African wild dog can be heard by people from as far away as 4 kilometres. What is the area in which people can hear a hoot?
- 4. Calculate the area of the shaded region.





c.



Typhoons are classified by their size and strength. The minimum radius of a "very large" typhoon is 800 km. What is the smallest possible area covered by a very large typhoon?