Lesson 9

9.1 Twenty-One Today

Work quickly, but accurately.
You have up to 21 minutes to answer as many questions as you can.

Do NOT use a calculator

Question 1
Write down the *area* of this rectangle :

Answer : _____

Question 2
Which one of the following can *area* measured in ?

(**a**) cm ^{3} (**b**) miles per gallon
(**c**) mm ^{2} (**d**) volts

Answer : _____

Question 3
Write down the *perimeter* of this rectangle :

Answer : _____

Question 4
Which do you think could be the volume of a can of coca cola ?

(**a**) 3.5 litres   (**b**) 330 ml
(**c**) 1 gallon   (**d**) 1 cm ^{3}

Answer : _____

Question 5

Which of the following is the formula for the *area* of a circle ?

(**a**)   Area $\mathbf{O} = \pi^2 r$ (**b**)   Area $\mathbf{O} = \pi r^3$

(**c**)   Area $\mathbf{O} = \pi r^2$ (**d**)   Area $\mathbf{O} = \frac{1}{2} b h$

Answer : _____

Question 6

Taking the value of π to be 3, write down the *area* of this circle :

20cm
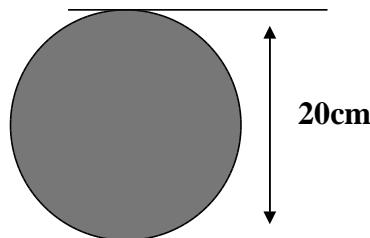
Answer : _____

Question 7

What special word is used to describe the *perimeter* of a circle ?

(**a**)   Circumnavigate   (**b**)   Circumference

(**c**)   Circumscribe   (**d**)   Circulate

Answer : _____

Question 8

Taking the value of π to be 3, write down the *perimeter* of this circle :

14cm
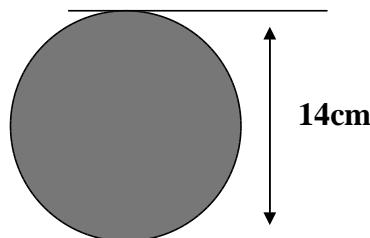
Answer : _____

Question 9

Which of the following might the *perimeter* of a regular hexagon be measured in ?
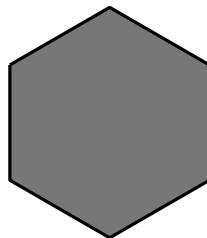
(**a**)   cm   (**b**) cm^2
(**c**) cm^3 (**d**) cm^4

Answer : _____

Question 10

Write down the *area* of this triangle :

8cm

12cm
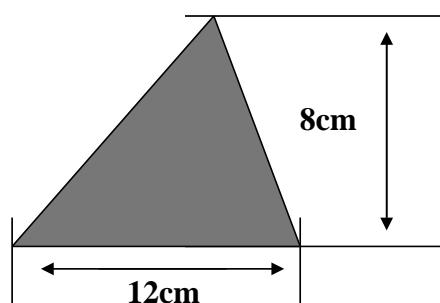
Answer : _____

Question 11

Which of the following could be a *length* ?
(**a**)   54 Kilojoules   (**b**)   54 Kilograms
(**c**)   54 Kilobytes   (**d**)   54 Kilometres

Answer : _____


Question 12

Estimate, in cm, the *length* of your longest finger.

Answer : _____

Question 13

Write down the *area* of this triangle : _____

11cm

18cm
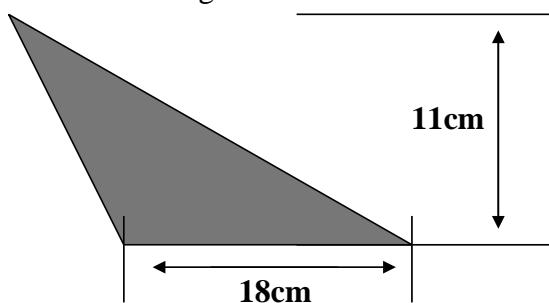
Answer : _____

Question 14

When talking about an *amount of surface*, are you talking about :

(**a**)   a length   (**b**)   an area
(**c**)   a volume   (**d**)   a time

Answer : _____

Question 15

An equilateral triangle has a side of length 12cm.
What is it's *perimeter* ?

Answer : _____

Question 16

What shape has it's area described as
"*Half the sum of the parallel sides times the distance in between*" ?

(**a**)   a trapezium   (**b**)   a triangle
(**c**)   a circle   (**d**)   a hexagon

Answer : _____

Question 17

When talking about a quantity of water, are you typically talking about

(**a**)   a length   (**b**)   an area
(**c**)   a volume   (**d**)   a time

Answer : _____

Question 18

Write down the *area* of the following shape :
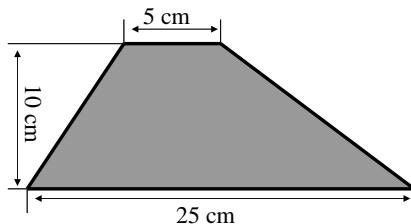
Answer : _____

Question 19

A square has a *perimeter* of 32 cm.
What is the length of each side ?

Answer : _____

Question 20

A square has an *area* of 25 cm².
What is the length of each side ?

Answer : _____

Question 21

Estimate the *area* of the front of an A4 piece of paper.

Answer : _____