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Circle: pi and Finding Circumference

1. WHAT IS pi (π) ?

- π (pronounced as "pie") is a letter of the Greek alphabet;
- in Math, this symbol is used to represent the ratio of circumference and diameter, the special relationship between circumference and diameter;
- in any circle, this ratio, this relationship is always the same:

$$\pi = 3.141592653589793...$$

- this number is a non-repeating, and non-terminating decimal;
- it has been a great quest in history to find the most accurate measure of $\boldsymbol{\pi}$

2. DIAMETER & RADIUS

Remember that the definition of radius is ____

Therefore, if the radius of a circle is 4 cm, then the diameter must be _____.

Complete the table:

CIRCLE	A	В	С	D	E	F	G	Н	I
RADIUS	11m	21cm	1.1cm			1.3m	2.9cm		
DIAMETER				8m	11cm			5.3m	9cm

3. FINDING CIRCUMFERENCE

Remember that every circumference, when divided by its diameter will always equal ____ That means that a diameter of a circle multiplied by π will always give you the circle's

Knowing this, we can come up with these formulae.

To find the circumference of a circle we use:

 $C = \pi d$ when we are given the diameter of the circle;

or $C = \pi 2r$ (usually written $C = 2\pi r$)

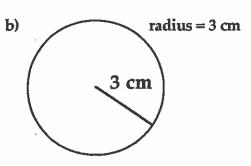
when we are given the radius of the circle

To simplify calculation, we use $\pi = 3.14$

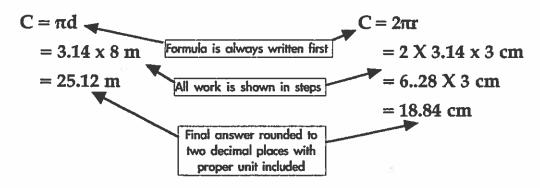
4. Example: Find the Circumference of these circles:

a) diameter = 8 m

Since the diameter is given, we use this formula:



Since the radius is given, we use this formula:



5. Calculate the following Circumferences.

(C)



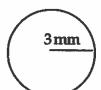
b)



c)



d)



e)



f)

