

Name _____ Date _____

Circle Talk

Math has a language of its own but instead of words and punctuation to make sentences it uses numbers and symbols to make expressions, equations, and formulas. For example, the expression $2 + 3$ tells you in math numbers and symbols to add two plus three. When using formulas in Geometry to find desired measures, it is important to understand AND follow the formulas. For example, look at the circle formulas.

$D = 2r$ means **multiply radius x 2** to find diameter.

$r = 1/2D$ means **divide diameter by 2** to find radius.

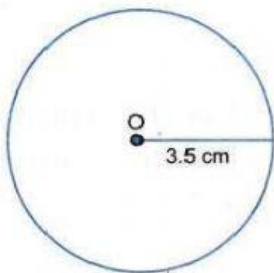
$C = \pi D$ means multiply **3.14 x diameter** to find circumference

$C = 2 \pi r$ means multiply **2 x 3.14 x radius** to find circumference

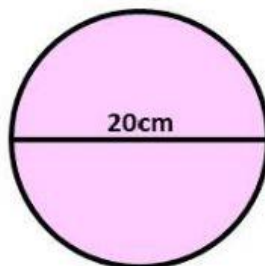
Look at the formulas to find the radius, diameter, circumference, and area of a circle, then match them to what they mean in words. Put the letter of the correct definition next to the correct formula.

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|--|---|
| 1) $D = 2r$ | a) To find radius, divide diameter by two |
| 2) $r = 1/2D$ | b) To find circumference, multiply 3.14 times the diameter OR multiply 2 x 3.14 x diameter |
| 3) $C = \pi D$ OR $C = 2 \pi r$ | c) To find diameter, multiply 2 times the radius |

4) Find the diameter:



5) Find the radius



6) Find the circumference.

