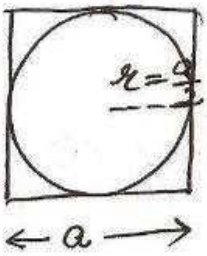
ex 11.2, examplar x

(1)



diameter of ⊙ = Side of Square

$2r = a$

$\Rightarrow r = \frac{a}{2}$ cm

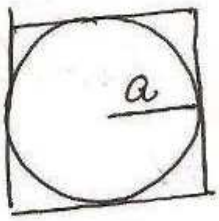
area of ⊙ $= \pi r^2$

$= \pi \left(\frac{a}{2}\right)^2$

$= \frac{a^2}{4}\pi$ cm^2

∴ False

(2)



Side of square = diam. of ⊙

$= 2r$

$= 2a$

Perimeter of Square

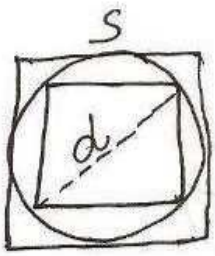
$= 4 \times$ Side

$= 4 \times 2a$

$= 8a$ cm

∴ True

(3)



diagonal of inner Square = diameter of ⊙ = d

Side of outer Sq = diam. of ⊙ = d

$\frac{A_{outer}}{A_{inner}} = \frac{S^2}{\frac{1}{2}d^2}$

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

$= 2$ False