
RESUELVE
PROBLEMAS DE
FORMA, MOVIMIENTO Y LOCALIZACIÓN

# Propósito

Establecer relaciones y calcular el área de regiones circulares en la resolución de problemas

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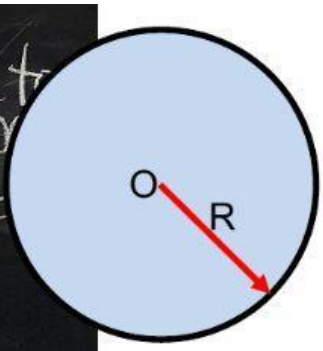
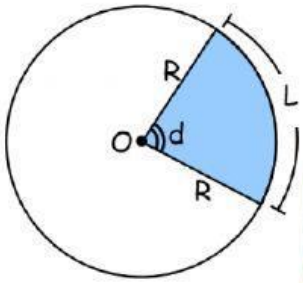
1




$$A_O = R^2\pi$$

$$\pi = 3{,}14$$

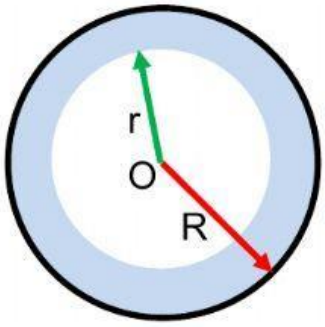
2




$$A_S = \frac{L.R}{2}$$

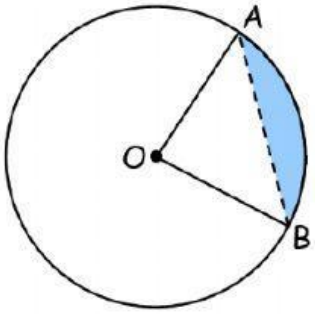
$$A_S = \frac{\alpha^{\circ}}{360^{\circ}}\pi R^2$$

3




$$A_O = \pi(R^2 - r^2)$$

4




$$A = \overset{\frown}{AOB} - \overset{\triangle}{AOB}$$

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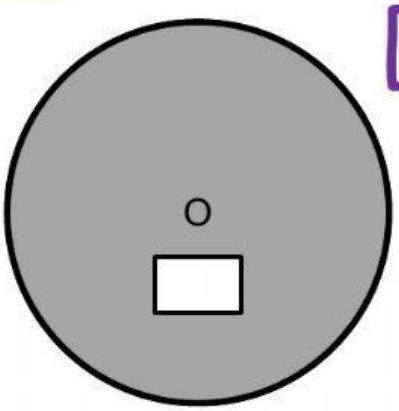
**1** Calcular el área de una región circular cuyo diámetro es 6u




$R = \square$

$A_O = R^2\pi$

$A_O = (\square)^{\square}\pi$

$A_O = \square\ \pi\ \square^{\square}$

$A_O = \square(\square)^{\square}$

$A_O = \square\ \square^{\square}$

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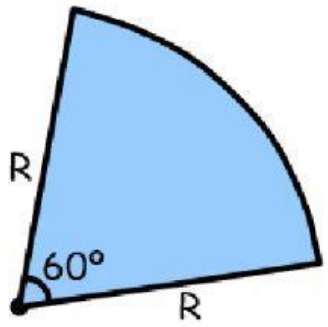
**2** Calcular el área del sector mostrado (R = 6u)

$$A_S = \frac{\alpha^\circ}{360^\circ}\pi R^2$$




$$A_S = \frac{\square}{\square}\ \pi\ (\square)^{\square}$$

$$A_S = \frac{\square}{\square}\pi\ \square\square^{\square}$$

$$A_S = \square\pi\ \square^{\square}$$

$$A_S = \square(\ \square\ )^{\square}$$

$$A_S = \square\ \square^{\square}$$

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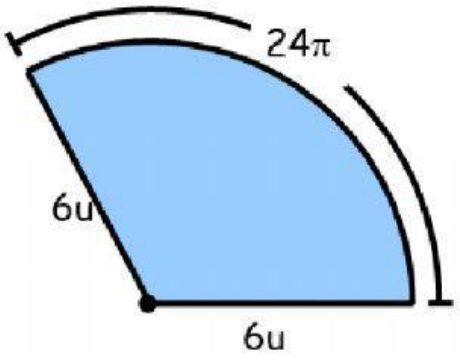
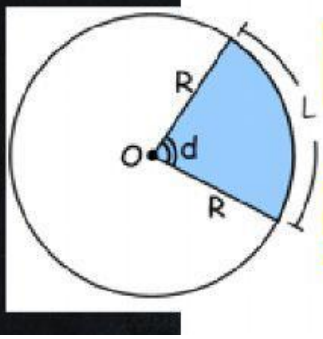
**3** Calcular el área del sector




**1** $A_S = \frac{L.R}{2}$

**2** $A_S = \frac{\alpha^\circ}{360^\circ} R^2$

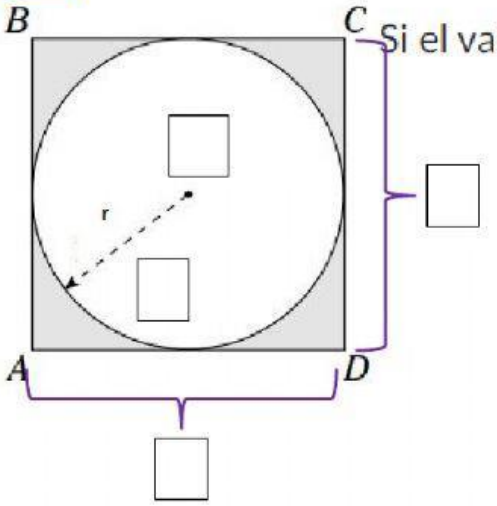
$A_S = \frac{L.R}{2}$

$A_S = \frac{\square\ \pi\ \square\ \square}{\square}$

$A_S = \square\ \pi\ \square\ \square$

$A_S = \square\ \pi$

**4** En el gráfico, la circunferencia de radio $r$ está inscrita en el cuadrado $ABCD$.




Si el valor de $r$ es $2$ cm, **¿cuál es el área de la región sombreada?**

$$A_S = A_{ABCD} - A_O$$

$$A_S = \square^{\square} - \pi \cdot \square^{\square}$$

$$A_S = \square^{\square} - \pi \cdot \square^{\square}$$

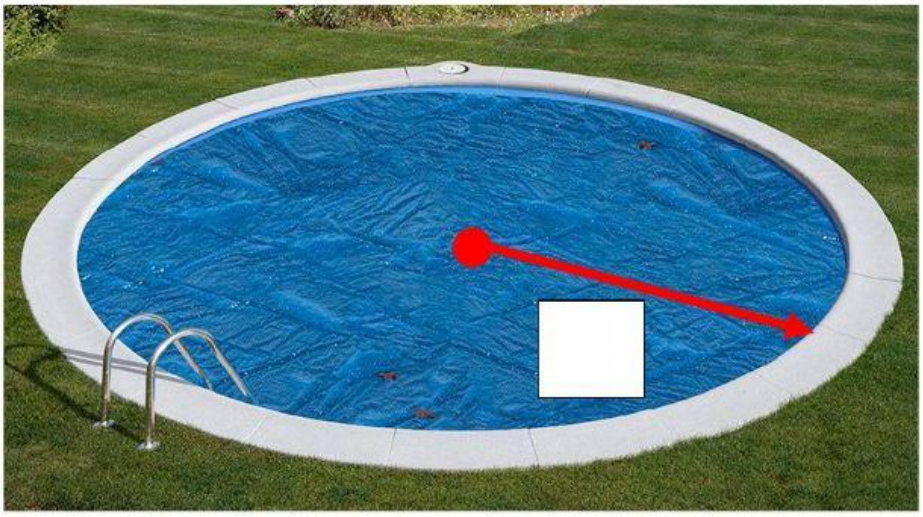
$$A_S = \square - \pi \cdot \square$$

$$A_S = \square \ (\square\square \ \pi \ )$$

**5** Supongamos que una piscina circular sobre el suelo tiene un radio de 12 pies. ¿Cuál es el área de la superficie expuesta del agua que contiene?

$R = \square$

$A_O = R^2\pi$



$A_O = \square^{\square}\pi$

$A_O = \square\pi$