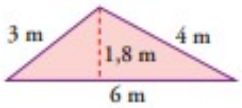
TEMA 5.- EJERCICIOS RESUELTOS AREAS Y PERIMETROS

Áreas y perímetros de figuras sencillas

Halla el área y el perímetro de las figuras coloreadas de los siguientes ejercicios:

1 ▲△△ a)

b)



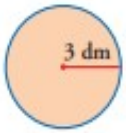
a) $S = 3\text{ m} \cdot 3\text{ m} = 9\text{ m}^2$

$P = 4 \cdot 3\text{ m} = 12\text{ m}$

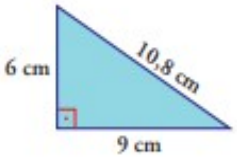
b) $S = \dfrac{6\text{ m} \cdot 1{,}8\text{ m}}{2} = 5{,}4\text{ m}^2$

$P = 3 + 4 + 6 = 13\text{ m}$

2 ▲△△ a)



b)



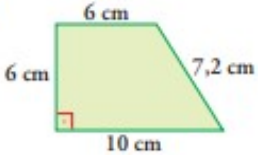
a) $S = \pi \cdot 3^2\text{ dm}^2 = 28{,}26\text{ dm}^2$

$P = 2\pi \cdot 3\text{ dm} = 18{,}84\text{ dm}$

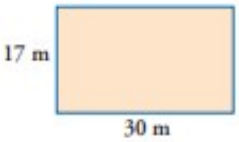
b) $S = \dfrac{9\text{ cm} \cdot 6\text{ cm}}{2} = 27\text{ cm}^2$

$P = 6\text{ cm} + 9\text{ cm} + 10{,}8\text{ cm} = 25{,}8\text{ cm}$

3 ▲△△ a)



b)



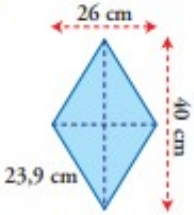
a) $S = \dfrac{B + b}{2} \cdot h = \dfrac{10 + 6}{2} \cdot 6 = 48\text{ cm}^2$

$P = 6 + 6 + 10 + 7{,}2 = 29{,}2\text{ cm}$

b) $S = 30\text{ m} \cdot 17\text{ m} = 510\text{ m}^2$

$P = (17 \cdot 2)\text{ m} + (30 \cdot 2)\text{ m} = 94\text{ m}$

4 ▲△△ a)



b)

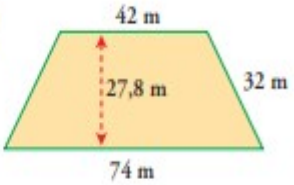
a) $S = \dfrac{D \cdot d}{2} = \dfrac{40 \cdot 26}{2} = 520\text{ cm}^2$

$P = 23{,}9 \cdot 4\text{ cm} = 95{,}6\text{ cm}$

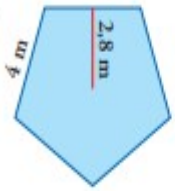
b) $S = \dfrac{23 \cdot 13{,}8}{2} = 158{,}7\text{ dam}^2$

$P = 18 + 23 + 18 = 59\text{ dam}$

5 ▲△△ a)



b)



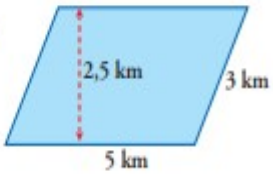
a) $S = \frac{74+42}{2} \cdot 27{,}8 = 1\,612{,}4 \text{ m}^2$

$P = 74 + 42 + (32 \cdot 2) = 180 \text{ m}$

b) $S = \frac{P \cdot a}{2} = \frac{(5 \cdot 4) \cdot 2{,}8}{2} = 28 \text{ m}^2$

$P = 5 \cdot 4 = 20 \text{ m}$

6 ▲△△ a)



b)

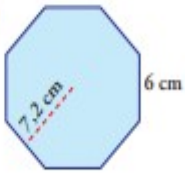
a) $S = 5 \cdot 2{,}5 = 12{,}5 \text{ km}^2$

$P = (2 \cdot 5) + (2 \cdot 3) = 16 \text{ km}$

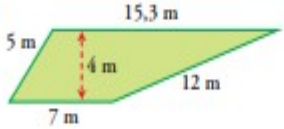
b) $S = \frac{\pi \cdot r^2}{2} = \frac{\pi \cdot 5^2}{2} = 39{,}25 \text{ cm}^2$

$P = \frac{2\pi r}{2} + 2r = \pi \cdot 5 + 10 = 25{,}7 \text{ cm}$

7 ▲△△ a)



b)



a) $S = \frac{P \cdot a}{2} = \frac{(8 \cdot 6) \cdot 7{,}2}{2} = 172{,}8 \text{ cm}^2$

$P = 6 \cdot 8 = 48 \text{ cm}$

b) $S = \frac{15{,}3 + 7}{2} \cdot 4 = 44{,}6 \text{ m}^2$

$P = 5 + 15{,}3 + 12 + 7 = 39{,}3 \text{ m}$