

Gabarito das atividades de área das figuras planas.

1) a) $A = b \cdot h$
 $A = 6 \cdot 3$
 $A = 18 \text{ cm}^2$

b) $A = b \cdot h$
 $A = 3,4 \cdot 5,3$
 $A = 18,02 \text{ dm}^2$

c) $A = l^2$
 $A = (5,2)^2$
 $A = 27,04 \text{ cm}^2$

d) $A = \frac{l^2 \sqrt{3}}{4}$
 $A = \frac{6^2 \sqrt{3}}{4}$
 $A = 9\sqrt{3} \text{ cm}^2$

e) $A = \frac{b \cdot h}{2}$
 $A = \frac{4 \cdot 3}{2}$
 $A = 6 \text{ cm}^2$

f) $d = l\sqrt{2}$
 $4 = l\sqrt{2}$
 $\frac{4}{\sqrt{2}} = l$
 $l = \frac{4 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} \rightarrow 2\sqrt{2} \text{ cm}$

$A = l^2$
 $A = (2\sqrt{2})^2$
 $A = 4 \cdot 2$
 $A = 8 \text{ cm}^2$

g) $A = 6 \cdot \frac{l^2 \sqrt{3}}{4}$
 $A = 6 \cdot \frac{3^2 \sqrt{3}}{4}$
 $A = \frac{27\sqrt{3}}{2} \text{ cm}^2$

h) $A = b \cdot h$
 $A = 8 \cdot 3$
 $A = 24 \text{ cm}^2$

i) $A = \frac{(B+b)h}{2}$
 $A = \frac{(6+2)4}{2}$
 $A = 16 \text{ cm}^2$

j) $A = \frac{(B+b)h}{2}$
 $A = \frac{(5+2)3}{2}$
 $A = 10,5 \text{ cm}^2$

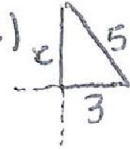
k) $A = \frac{D \cdot d}{2}$
 $A = \frac{7 \cdot 5}{2}$
 $A = 17,5 \text{ cm}^2$

m) $A = \pi \cdot r^2$
 $A = \pi \cdot 3^2$
 $A = 9\pi \text{ cm}^2$ ou $9 \cdot 3,14 \rightarrow 28,26 \text{ cm}^2$

n) $A = \pi \cdot r^2$
 $A = \pi \cdot (1,5)^2$ pode substituir π ou mais.
 $A = 2,25\pi \text{ cm}^2$

o) $A = A_{\Delta} + A_{\square} + A_{\square} + A_{\square}$
 $A = \frac{b \cdot h}{2} + b \cdot h + b \cdot h + l^2$
 $A = \frac{4 \cdot 3}{2} + 3 \cdot 3 + 4 \cdot 3 + 3^2$
 $A_{\text{TOTAL}} = 36 \text{ cm}^2$

p) $D = 14 \text{ dm}$
 $d = 8 \text{ dm}$
 $A = \frac{D \cdot d}{2}$
 $A = \frac{14 \cdot 8}{2} \rightarrow 56 \text{ dm}^2$

q)  $5^2 = 3^2 + x^2$
 $25 - 9 = x^2$
 $x = \sqrt{16}$
 $x = 4$

$A = \frac{D \cdot d}{2}$
 $A = \frac{8 \cdot 6}{2}$
 $A = 24 \text{ cm}^2$

$D = 8 \text{ cm}$
 $d = 6 \text{ cm}$

$$2) a) A = A_{\square} - A_{\circ}$$

$$A = l^2 - \pi \cdot r^2$$

$$A = 4^2 - 3,14 \cdot 2^2$$

$$A = 16 - 12,56$$

$$A = 3,44 \text{ cm}^2$$

$$b) A = 2 \cdot A_{\Delta}$$

$$A = 2 \cdot \frac{b \cdot h}{2}$$

$$A = 2 \cdot \frac{2 \cdot 5}{2}$$

$$A = 10 \text{ cm}^2$$

$$c) A = A_{\Delta}$$

$$A = \frac{(B+b)h}{2}$$

$$A = \frac{(7+3)5}{2}$$

$$A = 25 \text{ cm}^2$$

$$d) A = \frac{A_{\circ}}{2}$$

$$A = \frac{\pi \cdot r^2}{2}$$

$$A = \frac{\pi \cdot 3^2}{2}$$

$$A = 4,5\pi \text{ cm}^2$$

$$e) A = A_{\square} - \frac{A_{\circ}}{2}$$

$$A = b \cdot h - \frac{\pi \cdot r^2}{2}$$

$$A = 6 \cdot 3 - \frac{3,14 \cdot 3^2}{2}$$

$$A = 3,87 \text{ cm}^2$$

$$f) A = A_{\circ} - A_{\circ}$$

$$A = \pi \cdot 5^2 - \pi \cdot 3^2$$

$$A = 16\pi \text{ cm}^2$$

$$g) A = \frac{A_{\circ}}{4}$$

$$A = \frac{\pi \cdot r^2}{4} \rightarrow \frac{\pi \cdot 10^2}{4} \rightarrow 25\pi \text{ cm}^2$$

$$h) A = A_{\square} - A_{\circ}$$

$$A = b \cdot h - \pi \cdot r^2$$

$$A = 8 \cdot 4 - 3,14 \cdot 2^2$$

$$A = 19,44 \text{ cm}^2$$

$$i) A = A_{\circ}$$

$$A = \pi \cdot r^2$$

$$A = \pi \cdot 2^2$$

$$A = 4\pi \text{ cm}^2$$

$$j) A = \frac{A_{\circ}}{2}$$

$$A = \frac{\pi \cdot r^2}{2}$$

$$A = \frac{\pi \cdot (1,5)^2}{2}$$

$$A = 1,125\pi \text{ cm}^2$$

$$k) A = \frac{A_{\circ}}{2}$$

$$A = \frac{\pi \cdot r^2}{2}$$

$$A = \frac{\pi \cdot 2^2}{2}$$

$$A = 2\pi \text{ cm}^2$$

$$l) A = A_{\square} - \frac{A_{\circ}}{2}$$

$$A = 4^2 - \frac{3,14 \cdot 2^2}{2}$$

$$A = 9,72 \text{ cm}^2$$

$$m) \left. \begin{array}{l} D = 18 \text{ cm} \\ d = 12 \text{ cm} \\ A = \left(\frac{D \cdot d}{2}\right) \cdot \frac{1}{4} \\ A = \left(\frac{18 \cdot 12}{2}\right) \cdot \frac{1}{4} \\ A = 27 \text{ cm}^2 \end{array} \right\}$$

$$o) \left. \begin{array}{l} d = l\sqrt{2} \\ 8 = l\sqrt{2} \\ \frac{8}{\sqrt{2}} = l \end{array} \right\} \begin{array}{l} l = \frac{8 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} \\ l = \frac{8\sqrt{2}}{2} \\ l = 4\sqrt{2} \text{ cm} \end{array}$$

$$A = \frac{A_{\Delta}}{2}$$

$$A = \frac{b \cdot h}{2}$$

$$A = \frac{6 \cdot 9}{2}$$

$$A = 27 \text{ cm}^2$$

$$A = \frac{(4\sqrt{2})^2}{2}$$

$$A = 16 \text{ cm}^2$$

$$p) A = 2 \cdot A_{\circ}$$

$$A = 2 \cdot \frac{l^2 \sqrt{3}}{4}$$

$$A = 2 \cdot \frac{2^2 \sqrt{3}}{4}$$

$$A = 2\sqrt{3} \text{ cm}^2$$

$$q) A = \frac{A_{\circ}}{4}$$

$$A = \frac{\pi \cdot r^2}{4}$$

$$A = \frac{\pi \cdot 3^2}{4}$$

$$A = 2,25\pi \text{ cm}^2$$

Obs: retificar a resposta da letra m