

1 In un rettangolo la base è $\frac{3}{4}$ dell'altezza e la loro somma misura 63 cm. Trova area, perimetro e diagonale.

2 In un triangolo isoscele il perimetro misura 72 cm e la base cm 32. Trova l'area.

3 In un rombo la diagonale minore misura 36 cm e il lato è $\frac{5}{6}$ della diagonale minore. Trova l'area e il perimetro.

$$\sqrt{\left(\frac{3}{4} + \frac{5}{2} - \frac{15}{10} \times \frac{8}{5}\right) : \frac{17}{5}} + \sqrt{\left(\frac{3}{8} + \frac{2}{3} \times \frac{9}{8}\right) \times 2}$$

$$\sqrt{\left[\left(\frac{3}{5} + \frac{1}{2} - \frac{3}{8} \times \frac{16}{15}\right) \times \frac{10}{3}\right] - \frac{3}{4} - \frac{1}{2} \times \frac{4}{5}} : \frac{71}{15}$$

$$3 \frac{\sqrt{10}}{\sqrt{5}} + \sqrt{25} + \sqrt{18} + \frac{4}{\sqrt{2}} =$$

$$\sqrt{315844} \quad \sqrt{56169}$$



$$b = \frac{3}{4} h$$

$$b + h = 63 \text{ cm}$$

$$A = ? \quad 2p = ? \quad d = ?$$

$$\frac{3}{4} + \frac{4}{4} = \frac{7}{4}$$

$$63 : 7 = 9 \text{ cm U.F.}$$

$$b = 9 \times 3 = 27 \text{ cm}$$

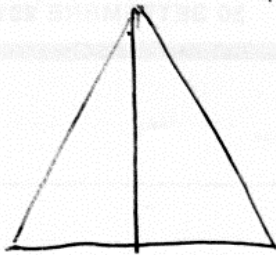
$$h = 9 \times 4 = 36 \text{ cm}$$

$$d = \sqrt{b^2 + h^2} = \sqrt{27^2 + 36^2} = 45 \text{ cm}$$

$\underline{3 \cdot 9} \quad \underline{4 \cdot 9} \quad \underline{5 \cdot 9}$

$$A = b \times h = 27 \times 36 = 972 \text{ cm}^2$$

$$2p = (b + h) \times 2 = 63 \times 2 = 126 \text{ cm}$$



$$2p = \text{cm } 72$$

$$b = \text{cm } 32$$

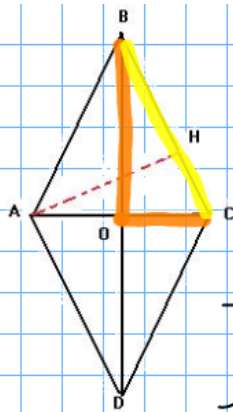
$$A = ?$$

$$l = (2p - b) : 2 = (72 - 32) : 2 = 20 \text{ cm}$$

$$h = \sqrt{l^2 - \left(\frac{b}{2}\right)^2} = \sqrt{20^2 - 16^2} = 12 \text{ cm}$$

$\underline{4 \cdot 5} \quad \underline{4 \cdot 4} \quad \underline{4 \cdot 3}$

$$A = \frac{b \cdot h}{2} = \frac{32 \cdot 12}{2} = 192 \text{ cm}^2$$



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$$p = \frac{5}{6} d$$

$$d = 36 \text{ cm}$$

$$p = \frac{5}{6} \cdot 36 = 30 \text{ cm}$$

$$2p = 4p = 4 \cdot 30 = 120 \text{ cm}$$

$$\frac{D}{2} = \sqrt{p^2 - \left(\frac{d}{2}\right)^2} = \sqrt{30^2 - 18^2} = 24 \text{ cm}$$

6 · 5 6 · 3 6 · 4

$$D = 24 \cdot 2 = 48 \text{ cm}$$

$$A = \frac{D \cdot d}{2} = \frac{48 \cdot 36}{2} = 864 \text{ cm}^2$$

$$\sqrt{\left(\frac{3}{4} + \frac{5}{2} - \frac{18}{10} \times \frac{4}{5}\right) \cdot \frac{17}{5}} + \sqrt{\left(\frac{3}{8} + \frac{2}{3} \times \frac{9}{8}\right) \times 2}$$

$$\sqrt{\left(\frac{3}{4} + \frac{5}{2} - \frac{12}{5}\right) \cdot \frac{5}{17}} + \sqrt{\left(\frac{3}{8} + \frac{3}{4}\right) \times 2}$$

$$\sqrt{\frac{15+50-48}{20} \cdot \frac{5}{17}} + \sqrt{\frac{3+6}{8} \times 2}$$

$$\sqrt{\frac{17 \cdot 5}{20 \cdot 17}} + \sqrt{\frac{9}{8} \times 2} = \sqrt{\frac{1}{4}} + \sqrt{\frac{9}{4}} = \frac{1}{2} + \frac{3}{2} = \frac{4}{2} = 2$$

$$\sqrt{\left[\frac{3}{5} + \frac{1}{2} - \frac{3}{8} \times \frac{16^2}{155}\right] \times \frac{10}{3} - \frac{3}{4} - \frac{1}{2} \times \frac{4^2}{5}} \cdot \frac{71}{15}$$

$$\sqrt{\left[\frac{3}{5} + \frac{1}{2} - \frac{2}{5}\right] \times \frac{10}{3} - \frac{3}{4} - \frac{2}{5}} \times \frac{15}{71}$$

$$\sqrt{\frac{6+5-4}{10} \times \frac{10}{3} - \frac{3}{4} - \frac{2}{5}} \times \frac{15}{71}$$

$$\sqrt{\left\{\frac{7}{3} - \frac{3}{4} - \frac{2}{5}\right\} \times \frac{15}{71}}$$

$$\sqrt{\frac{140-45-24}{60}} \times \frac{15}{71}$$

$$\sqrt{\frac{71}{60} \times \frac{15}{71}} = \sqrt{\frac{1}{4}} = \frac{1}{2}$$

$\begin{array}{r} \sqrt{3158.44} \\ 25 \\ \hline 658 \\ 636 \\ \hline 2244 \\ 2244 \\ \hline \end{array}$	$\begin{array}{r} 562 \\ \hline 106 \cdot 6 = 636 \\ \hline 1122 \cdot 2 = 2244 \end{array}$
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$\begin{array}{r} \sqrt{56169} \\ 4 \\ \hline 161 \\ 129 \\ \hline 3269 \\ 3269 \\ \hline \end{array}$	$\begin{array}{r} 237 \\ \hline 44 \cdot 4 = 176 \\ 43 \cdot 3 = 129 \\ \hline 468 \cdot 8 = 3744 \\ 467 \cdot 7 = 3269 \end{array}$
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$$= 3\sqrt{2} + 2^2\sqrt{2} + \sqrt{2 \cdot 9} + \frac{\sqrt[4]{2}}{2} =$$

$$= 3\sqrt{2} + 4\sqrt{2} + 3\sqrt{2} + 2\sqrt{2} = 12\sqrt{2}$$