- 1. In un rombo la somma delle diagonali è di cm 42 e quella maggiore è 4/3 di quella minore. Trova l'area.
  - + trova il perimetro di un quadrato equivalente.
- 2. In un rettangolo la base è i 3/8 dell'altezza che misura cm 32. Calcola perimetro e area.
- + trova la diagonale minore di un rombo equivalente la cui diagonale maggiore misura cm 24.
- 3. Un quadrato ha l'area di cm² 324. Calcola il perimetro.
  - + Calcola il perimetro di un rettangolo equivalente avente l'altezza di cm 9.

$$\frac{10}{3} \times \frac{3}{5} + \frac{3}{4} - \frac{1}{2} + \sqrt{\frac{3}{8}} \times (8 + \frac{1}{3}) \times (1 - \frac{23}{25}) = 1$$

$$\frac{1}{2} \times (\frac{5}{2} + 2) : \left[ (\frac{1}{2} + \frac{1}{3}) \times \frac{1}{6} - \frac{1}{36} \right] : (1 + \frac{5}{4}) = 1$$

$$\sqrt{\frac{35}{2}} - \sqrt{\frac{30}{100}} + \frac{9}{\sqrt{3}} - \sqrt{12} = 1$$

$$D+d=42 cm$$

$$D=\frac{4}{3}d$$

$$A=?=Aa$$

$$2b=?$$

$$\frac{4}{3} + \frac{3}{3} = \frac{7}{3} \text{ TOTALE PARTI}$$

$$12:7 = 6 \text{ cm U.F.}$$

$$13 = 6 \cdot 4 = 24 \text{ cm}$$

$$14 = 6 \cdot 3 = 18 \text{ cm}$$

$$15 = 6 \cdot 4 = 24 \text{ cm}$$

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$$b = \frac{3}{8}h \qquad b_r = 24 cm$$

$$h = 32 cm$$

$$2h = ? A = ? = A rombo$$

$$h = \frac{3}{8}h \qquad 2h = ? = A rombo$$

$$b = \frac{3}{8}h = 32 \cdot \frac{3}{8} = 12 \text{ cm}$$

$$A = b \times h = 12 \cdot 32 = 384 \text{ cm}$$

$$2h = (b+h) \cdot 2 = (12+32) \cdot 2 = 44 \cdot 2 = 88 \text{ cm}$$

$$d = \frac{2A}{D} = \frac{2.384}{24} = 32 \text{ cm}$$

$$A_q = A_r = 324 \text{ cm}^2$$

$$2 + q = ? \quad h_{rett} = 9 \text{ cm} \quad 2 + rett = ?$$

$$\begin{aligned}
&\ell = \sqrt{A} = \sqrt{324} = 18 \text{ cm} \\
&2 + \sqrt{9} = 4 \cdot 18 = 4 \cdot 18 = 72 \text{ cm} \\
&5 \text{ nutt} = \frac{A}{h} = \frac{324}{9} = 36 \text{ cm} \\
&-2 + \sqrt{9} = (b+h) \cdot 2 = (36+8) \cdot 2 = 45 \cdot 2 = 90 \text{ cm}
\end{aligned}$$

$$= \sqrt{\frac{3^{2}}{3}} \times \frac{3}{5} + \frac{3}{6} - \frac{1}{2} + \sqrt{\frac{3}{4}} \times \frac{28}{25} \times \frac{28}{25}$$

$$= \sqrt{2 + \frac{3}{4} - \frac{1}{2}} + \sqrt{\frac{1}{4}} = \sqrt{\frac{8 + 3 - 2}{4}} + \frac{1}{2} = \sqrt{\frac{9}{4} + \frac{1}{2}} = \frac{3}{2} + \frac{1}{2} = \frac{4}{2} = 2$$

$$\frac{1}{2} \times \left(\frac{5}{2} + 2\right) \cdot \left[\left(\frac{1}{2} + \frac{1}{3}\right) \times \frac{1}{6} - \frac{1}{36}\right] \cdot \left(1 + \frac{5}{4}\right) = \\
= \left[\frac{1}{2} \times \frac{9}{2} \cdot \left[\frac{3 + 2}{6} \times \frac{1}{6} - \frac{1}{36}\right] \times \frac{9}{4}\right] \\
= \left[\frac{1}{2} \times \frac{9}{2} \cdot \left[\frac{5}{6} \times \frac{1}{6} - \frac{1}{36}\right] \times \frac{9}{9}\right] \\
= \left[\frac{1}{2} \times \frac{9}{2} \cdot \left[\frac{5}{30} - \frac{1}{36}\right] \times \frac{9}{9}\right] \\
= \left[\frac{1}{2} \times \frac{9}{2} \cdot \left[\frac{5}{30} - \frac{1}{36}\right] \times \frac{9}{9}\right] \\
= \left[\frac{1}{2} \times \frac{9}{2} \times \frac{36}{9} \times \frac{4}{9}\right] = \sqrt{9} = 3$$

$$= 3^{2}\sqrt{3} - \sqrt{3} + \frac{39\sqrt{3}}{3} - \sqrt{4 \cdot 3} =$$

$$= 9\sqrt{3} - \sqrt{3} + 3\sqrt{3} - 2\sqrt{3} = 9\sqrt{3}$$