198 $\sqrt{\left[\left(\frac{32}{15}+\frac{2}{3}\right)-\left(\frac{7}{3}-\frac{4}{3}\right)+\left(\frac{9}{5}+\frac{2}{3}\right)-\left(\frac{9}{5}-\frac{5}{3}\right)\right]\times\frac{30}{31}}$

$= \sqrt{\left[\left(\frac{32+10}{15}\right)-\left(\frac{7-4}{3}\right)+\left(\frac{27+10}{15}\right)-\left(\frac{27-25}{15}\right)\right]\times\frac{30}{31}} =$

$= \sqrt{\left[\frac{42}{15}-\frac{3}{3}+\frac{37}{15}-\frac{2}{15}\right]\times\frac{30}{31}} =$

$= \sqrt{\left[\frac{42-15+37-2}{15}\right]\times\frac{30}{31}} =$

$= \sqrt{\frac{62}{\cancel{15}_{1}}\times\frac{\cancel{30}^{2}}{\cancel{31}_{1}}} =$

$= 1\cancel{3}$

$= \sqrt{4} = 2$

$$\sqrt{\left(5+\frac{3}{4}-\frac{2}{3}\right)\times\frac{3}{61}}+\sqrt{\left(\frac{2}{5}+\frac{7}{10}-\frac{4}{15}\right)\times\frac{2}{15}}=$$

$$=\sqrt{\frac{60+9-8}{12}\times\frac{3}{61}}+\sqrt{\frac{12+21-8}{30}\times\frac{2}{15}}=$$

$$\sqrt{\frac{\cancel{61}^{1}}{\cancel{12}_{4}}\times\frac{\cancel{3}^{1}}{\cancel{61}_{1}}}+\sqrt{\frac{\cancel{25}^{5}}{\cancel{30}_{\cancel{15}_{3}}}\times\frac{\cancel{25}^{5}}{\cancel{15}_{3}}}=\sqrt{\frac{1}{4}}+\sqrt{\frac{1}{9}}=$$

$$=\frac{1}{2}+\frac{1}{3}=\frac{3+2}{6}=\frac{5}{6}$$

199 $\sqrt{\left\{\left[\left(\frac{5}{2}-\frac{3}{4}+\frac{1}{8}\right)-\left(\frac{2}{5}+\frac{1}{2}\right)\right]\times\frac{5}{3}\right\}:\left[\left(\frac{1}{2}-\frac{5}{13}\right)\times 3\right]}$

$$\sqrt{\left\{\left[\left(\frac{20-6+7}{8}\right)-\left(\frac{4+5}{10}\right)\right]\times\frac{5}{3}\right\}:\left[\left(\frac{13-10}{26}\right)\times 3\right]}=$$

$$\sqrt{\left\{\left[\frac{15^{\times 5}}{8}-\frac{9^{\times 4}}{10}\right]\times\frac{5}{3}\right\}:\left[\frac{3}{26}\times\frac{3}{1}\right]}=$$

$$\sqrt{\left\{\left[\frac{75-36}{40}\right]\times\frac{5}{3}\right\}:\frac{9}{26}}=$$

$$\sqrt{\left\{\frac{\cancel{39}^{13}}{\cancel{40}_{8}}\times\frac{\cancel{15}^{5}}{\cancel{13}_{1}}\right\}:\frac{9}{26}}=$$

$$\sqrt{\frac{13}{8}\cdot\frac{\cancel{26}^{13}}{9}}=\sqrt{\frac{169}{36}}=\frac{13}{6}$$

RADICALI

$$\sqrt{20}+\frac{10}{\sqrt{5}}+\sqrt{5^3}-\sqrt{10}:\sqrt{2}=$$

$$\sqrt{4\cdot5}+\frac{10\sqrt{5}}{5}+5\sqrt{5}-\sqrt{5}=$$

$$2\sqrt{5}+2\sqrt{5}+5\sqrt{5}-\sqrt{5}=8\sqrt{5}$$

$$\sqrt{2}\cdot\sqrt{3}+\frac{2}{\sqrt{6}}+\sqrt{6^3}-\sqrt{24}=$$

$$=\sqrt{6}+\frac{2\sqrt{6}}{6}+6\sqrt{6}-\sqrt{6\times4}=$$

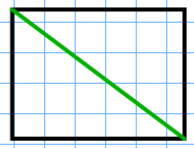
$$=\sqrt{6}+\frac{2\sqrt{6}}{6_3}+6\sqrt{6}-2\sqrt{6}=\frac{3+1+18-6}{3}\sqrt{6}=\frac{16\sqrt{6}}{3}$$

$$\sqrt{5^3}\qquad \sqrt{5^5}$$

$$5\sqrt{5}\qquad 5^2\sqrt{5}$$

$$\sqrt{5\cdot5^2}\qquad \sqrt{5\cdot5^4}$$

In un rettangolo la somma di base e altezza è cm 28 e l'altezza è 3/4 della base.
Trova area e perimetro.



DATI $h = \frac{3}{4} b$ $A = ?$
$b + h = 28$ cm $2P = ?$

$\frac{3}{4} + \frac{4}{4} = \frac{7}{4} \equiv 28$ cm

$28 : 7 = 4$ cm U.F

$h = 4 \times 3 = 12$ cm
$b = 4 \times 4 = 16$ cm

$A = b \times h = 16 \times 12 = 192$ cm^2

$2P = (b + h) \times 2 = (16 + 12) \times 2 = 28 \times 2 = 56$ cm

16 x
12 =
---
32 +
16 =

192