

PROPRIETÀ RADICI

PRODOTTO

$$\sqrt{81 \cdot 25} =$$
$$= \sqrt{81} \cdot \sqrt{25} = 9 \cdot 5 = 45$$

$$\sqrt{36 \cdot 49} = \sqrt{36} \cdot \sqrt{49} =$$
$$= 6 \cdot 7 = 42$$

~~$$\sqrt{36 + 25} \cdot 9 =$$
$$= \sqrt{36} + \sqrt{25} \cdot \sqrt{9}$$~~

QUOZIENTE

$$\sqrt{169 : 64} = \sqrt{169} : \sqrt{64} = 13 : 8$$

$$\downarrow$$
$$\sqrt{\frac{169}{64}} = \frac{\sqrt{169}}{\sqrt{64}} = \frac{13}{8}$$

$$\sqrt{49 : 121} = \sqrt{49} : \sqrt{121} = 7 : 11$$

$$\sqrt{\frac{49}{121}} = \frac{\sqrt{49}}{\sqrt{121}} = \frac{7}{11}$$

Rapporti
e
— proporzioni

$$r(4, 6) = 4:6 = \frac{\cancel{4}^2}{\cancel{6}_3}$$

$$r'(6, 4) = 6:4 = \frac{\cancel{6}_3}{\cancel{4}_2}$$

$$r\left(\frac{6}{5}, \frac{7}{2}\right) = \frac{6}{5} : \frac{7}{2} = \frac{\frac{6}{5}}{\frac{7}{2}} = \frac{6}{5} \cdot \frac{2}{7} = \frac{12}{35}$$

$$r'\left(\frac{7}{2}, \frac{6}{5}\right) = \frac{7}{2} : \frac{6}{5} = \frac{35}{12}$$

$$6:4 = 18:12$$

MEDI

ESTREMI

Uguaglianza
di due
rapporti

PROPORZIONE

$$8:4 = 4:2$$

CONTINUA

MEDIO

PROPORZIONALE

Calcolo del termine incognito

ESTREMO

$$\frac{9}{4} : \frac{3}{8} = \frac{9}{2} : x \longrightarrow x = \frac{\frac{3}{8} \cdot \frac{9}{2}}{\frac{4}{9}} = \frac{\overset{1}{3} \cdot \overset{3}{9}}{\underset{2}{8}} \cdot \frac{\overset{1}{4}}{\underset{3}{9}} = \frac{2}{4}$$

MEDIO

$$a : x = c : d \longrightarrow x = \frac{a \cdot d}{c}$$

MEDIO PROPORZIONALE

$$\frac{6}{49} : x = x : \frac{2}{3}$$

$$x = \sqrt{\frac{\overset{2}{6}}{49} \cdot \frac{2}{\underset{1}{3}}} = \sqrt{\frac{4}{49}} = \frac{\sqrt{4}}{\sqrt{49}} = \frac{2}{7}$$