

VERRANTO JA LUKUVIEN SUHDE

VERRANNOSSA KERTOITAAAN RISTIN.

{ RATAKATSE

$$a) \quad \frac{3}{x} \swarrow \searrow \frac{7}{9}$$

$$3 \cdot 9 = 7 \cdot x$$

$$27 = 7x \quad || : 7$$

$$x = \frac{27}{7} = 3\frac{6}{7} \approx 3,9$$

$$b) \quad \frac{(2x+3)}{x} = \frac{9}{2}$$

$$2 \cdot (2x+3) = 9x$$

$$4x + 6 = 9x$$

$$4x - 9x = -6$$

$$-5x = -6 \quad || : -5$$

$$x = \frac{6}{5}$$

$$= 1,2$$

$$c) \quad \frac{(x+2)}{3} = \frac{1}{(2-x)}$$

$$(x+2) \cdot (2-x) = 3$$

$$2x - x^2 + 4 - 2x = 3$$

$$-x^2 + 2x - 2x + 4 - 3 = 0$$

$$-x^2 + 1 = 0$$

$$a = -1$$

$$b = 0$$

$$c = 1$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-0 \pm \sqrt{0^2 - 4 \cdot (-1) \cdot 1}}{2 \cdot (-1)}$$

$$= \frac{-0 \pm \sqrt{4}}{-2} = \frac{-0 \pm 2}{-2}$$

$$\left\{ \begin{array}{l} \frac{-0+2}{-2} = -1 \\ \frac{-0-2}{-2} = 1 \end{array} \right.$$

{ URAKASTA MAKSETTIIN
YHTEENSÄ 130 €. MITEN RAHAT
JAETAAN, KUN PEKKA JA VILLE
TEKIVÄT TÖITÄ SUHTESSA 7:9?



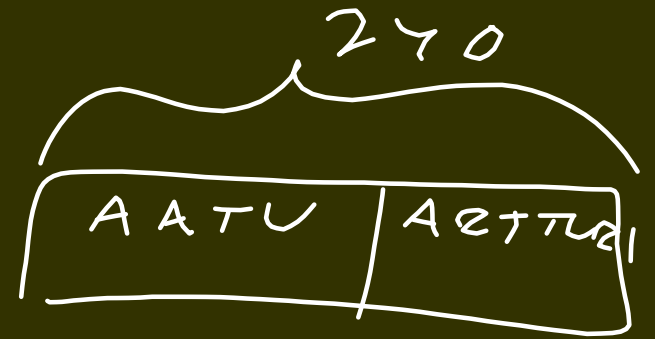
$$\Rightarrow \text{PEKKA} = 7 \cdot 8,125 \text{ €} = 56,875 \text{ €}$$

$$\text{VILLE} = 9 \cdot 8,125 \text{ €} = 73,125 \text{ €}$$

$$\Rightarrow 16x = 130 \quad || :16$$
$$x = \frac{130}{16}$$
$$x = 8,125$$

V: PEKKA 57€
VILLE 73€

SINULLE
SOPIVA



2 113 - 115