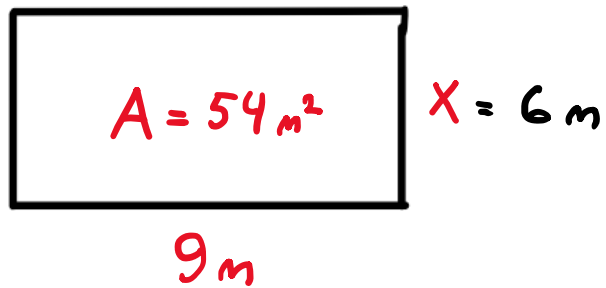
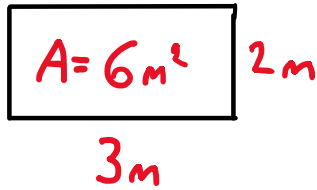


esim.

2.4



$$\frac{3m}{9m} \times \frac{2}{x}$$

$$3x = 9 \cdot 2$$

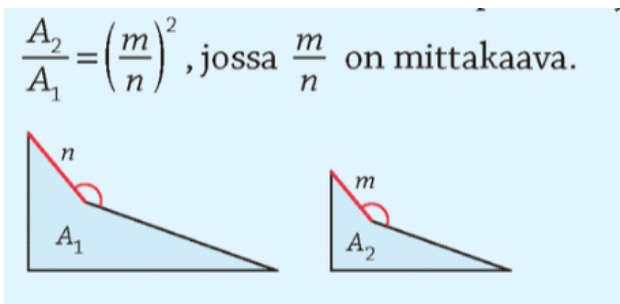
$$3x = 18 \quad || :3$$

$$x = 6$$

Mittakaava  $\frac{3^3}{9} = \frac{1}{3} = 1:3$

Pinta-alojen suhde

$$\frac{6^6}{54} = \frac{1}{9} = \left(\frac{1}{3}\right)^2$$



esim. Kartan mittakaava  
1 : 20 000

Kartalla pituus on 4 cm.  
Mikä on pituus luomossa?

$$\frac{1}{20\,000} = \frac{4}{x} \Leftrightarrow x = 4 \cdot 20\,000$$

$$= 80\,000 \text{ cm}$$

$$= 800 \text{ m}$$

Pituus	Pinta-ala
mm	mm <sup>2</sup>
cm	cm <sup>2</sup>
dm	dm <sup>2</sup>
m	m <sup>2</sup>
(dam)	a
(hm)	ha
km	km <sup>2</sup>

Kartalla pinta-ala on 5 cm<sup>2</sup>.  
Pinta-ala luomossa?

$$\left(\frac{1}{20\,000}\right)^2 = \frac{5}{x}$$

$$\Rightarrow x = 5 \cdot 400\,000\,000$$

$$\left(\frac{1}{20\,000}\right) = \frac{5}{X}$$

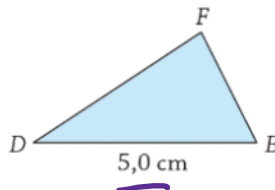
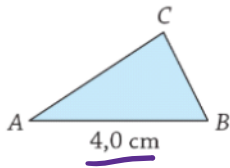
$$\frac{1}{400\,000\,000} = \frac{5}{X}$$

$$X = 5 \cdot 400\,000\,000$$

$$X = 2\,000\,000\,000 \text{ cm}^2 \\ = 20 \text{ ha} (= 0,2 \text{ km}^2)$$

274.

Kolmio  $DEF$  on kolmion  $ABC$  suurennos.



sivujen suhde

$$\frac{4}{5}$$

pinta-alojen suhde

$$\left(\frac{4}{5}\right)^2 = \frac{16}{25}$$