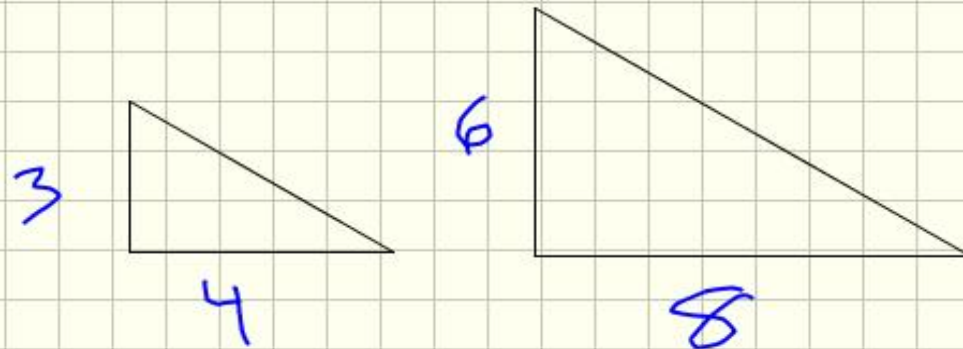


Likformighet

När två geometriska objekt är proportionella men har olika storlek så kan man använda sig av likformighet till att lösa olika problem.

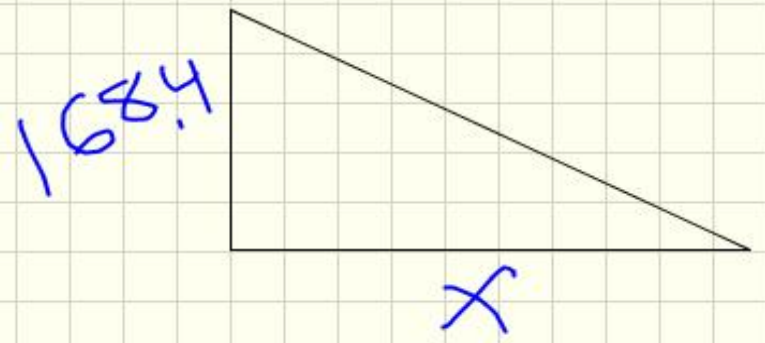
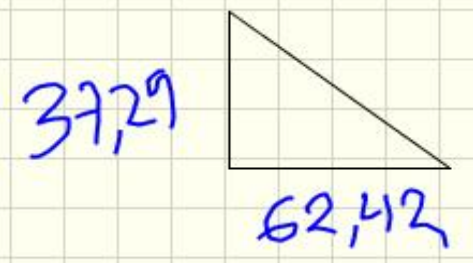
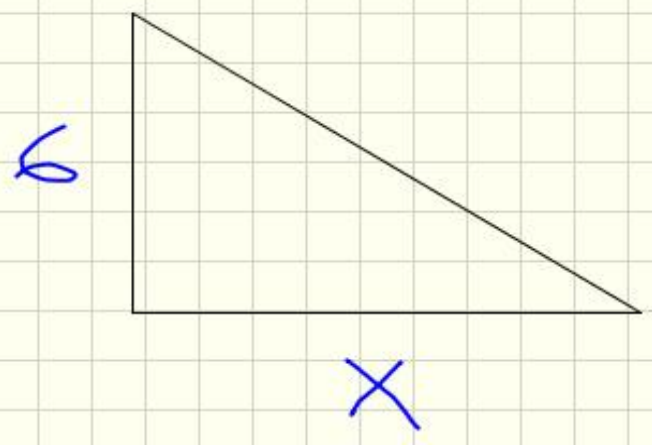
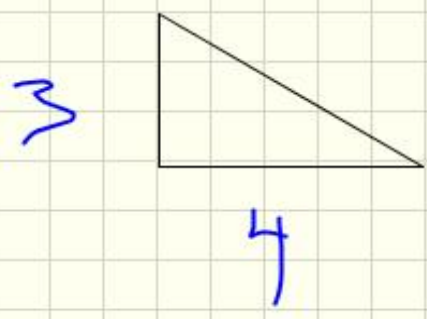
Man kan också se det som två bråk som man kan förlänga eller förkorta.

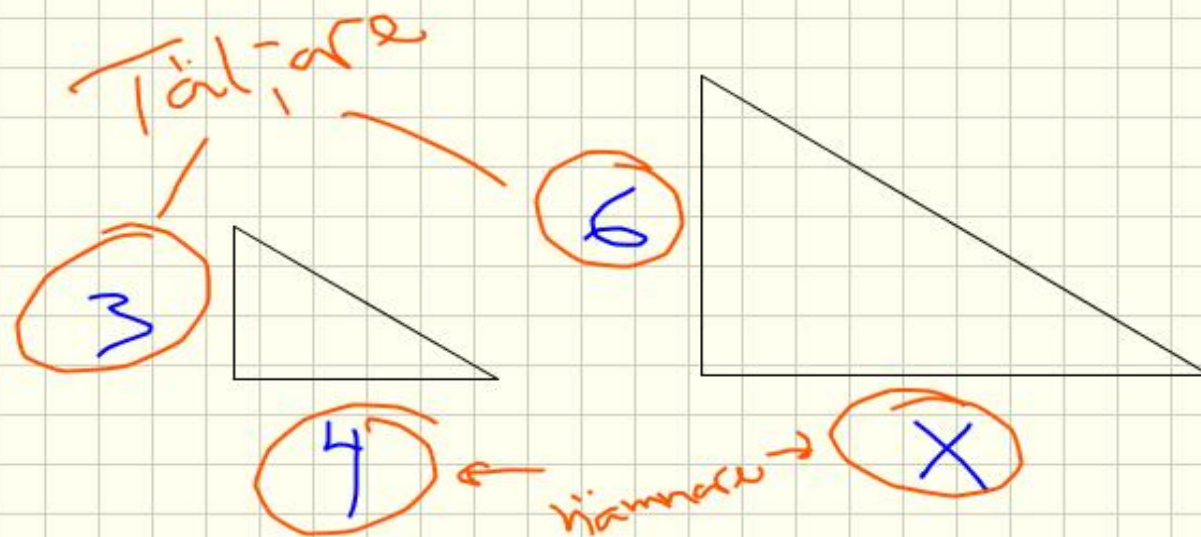


$$\frac{3}{4} = \frac{6}{8}$$

75%

75%





$$\frac{3}{4} = \frac{6}{x}$$

Det viktiga är av vi placerar
täljare och nämnare på
samma plats i proportionerna.

Precis som ett
bråk

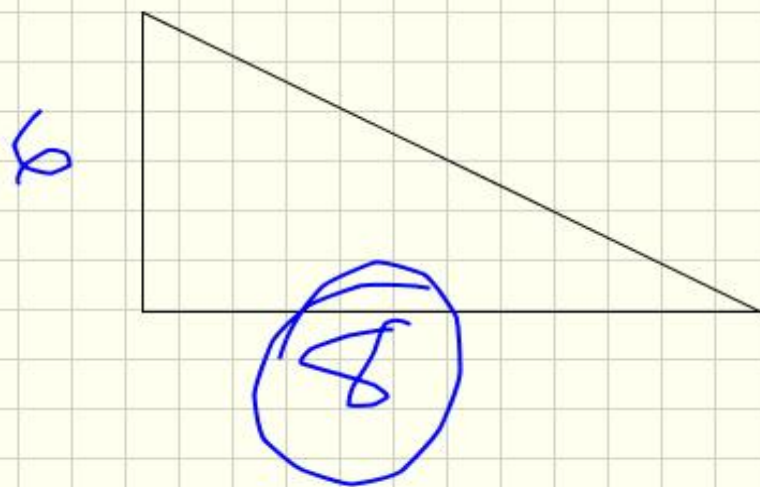
$$\frac{3}{4} \times \frac{6}{x}$$

Korsviss multi.

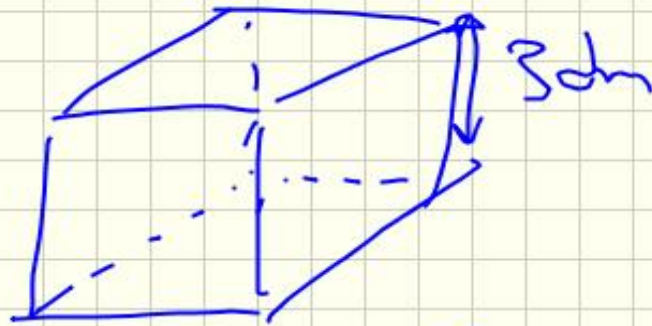
$$3x = 4 \cdot 6$$

$$3x = 24$$

$$x = 8$$



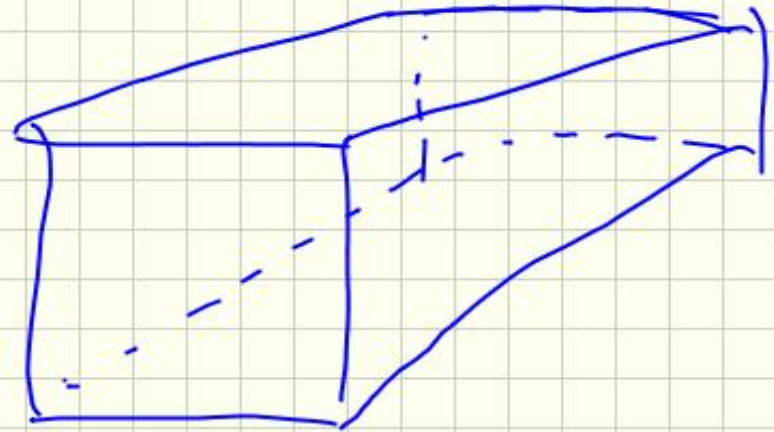
$$V = B \cdot h$$



$$B = \frac{V_1}{h_1}$$

$$V_1 = 5 \text{ dm}^3$$

$$h_1 = 3 \text{ dm}$$



$$V_2 = 15 \text{ dm}^3$$

$$h_2 = ?$$

$$\frac{V_2}{h_2}$$

$$\frac{V_1}{h_1} = \frac{V_2}{h_2}$$

facts.
↓

$$\frac{\sqrt{1}}{\sqrt{1}} = \frac{\sqrt{2}}{\sqrt{2}}$$

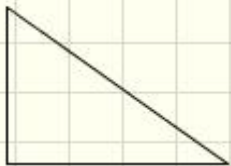
$$\frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{15}}{x}$$

$$\sqrt{3}x = 45$$

$$x = 9$$

$$\left(\begin{array}{l} \cancel{x} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{\cancel{x}} \cdot \cancel{x} \\ \sqrt{3} \cdot \frac{\sqrt{3}x}{3} = 15 \cdot \sqrt{3} \\ \sqrt{3}x = 45 \end{array} \right)$$

37,29



62,42

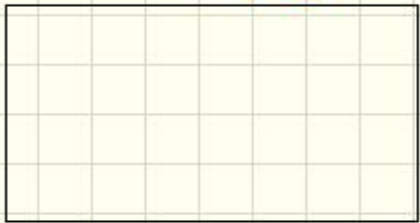
1684



X

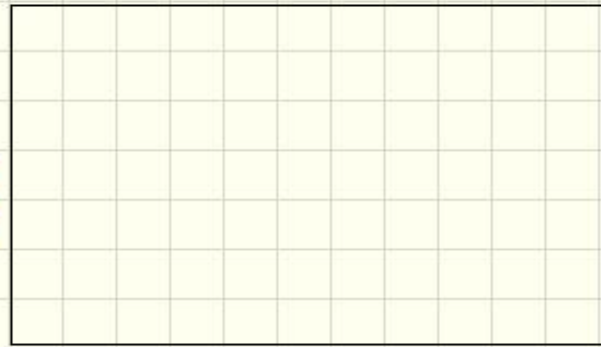
Lösungsw.

64



144 cm

X



872,1 cm