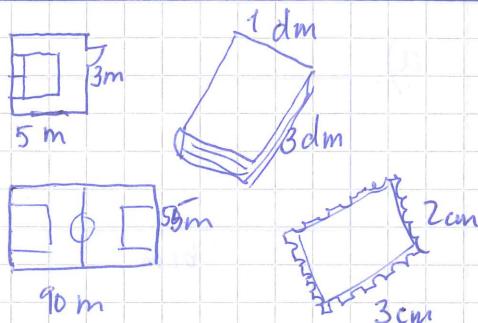
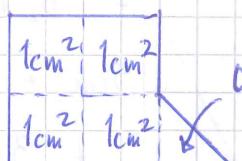


- 1.
- Sovrum 15 m^2
 - En boksida 3 dm^2
 - Fotbollsplan 5000 m^2
 - Ett frimärke 6 cm^2



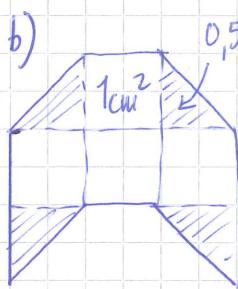
2

a)



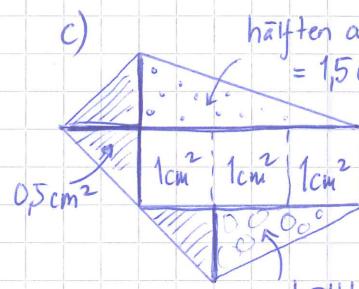
$$A = 4 \cdot 1 \text{ cm}^2 + 0,5 \text{ cm}^2 = 4,5 \text{ cm}^2$$

b)



$$A = 4 \cdot 1 \text{ cm}^2 + 0,5 \text{ cm}^2 = 4 \cdot 0,5 \text{ cm}^2 = 6 \text{ cm}^2$$

c)

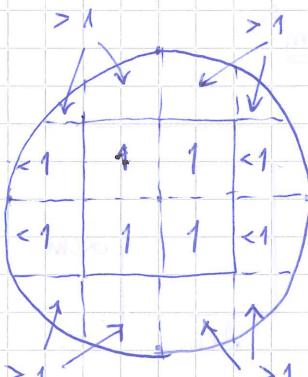


$$A = 3 \cdot 1 \text{ cm}^2 + 3 \cdot 0,5 \text{ cm}^2 + 1,5 \text{ cm}^2 + 1 \text{ cm}^2 = 3 \text{ cm}^2 + 1,5 \text{ cm}^2 + 1,5 \text{ cm}^2 + 1 \text{ cm}^2 = 7 \text{ cm}^2$$

5.43

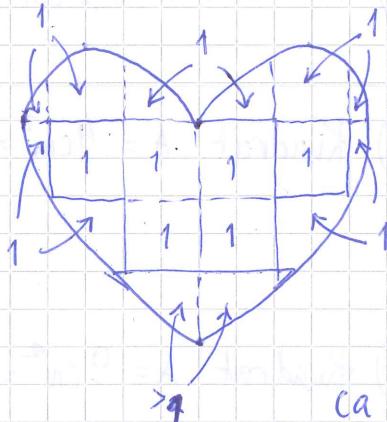
3

a)



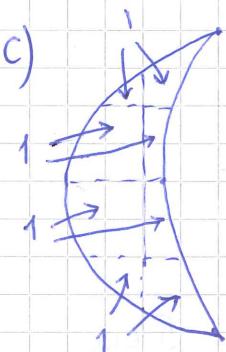
$$\text{ca } 12 \text{ cm}^2$$

b)



$$\text{ca } 12 \text{ cm}^2$$

c)



$$\text{ca } 4 \text{ cm}^2$$

5.44

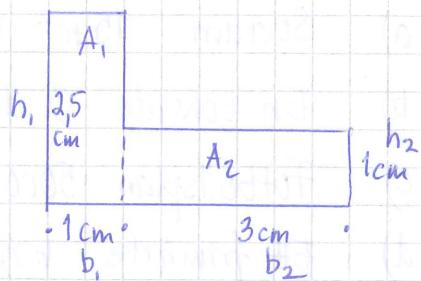
4

a)



$$A = b \cdot h = 6\text{cm} \cdot 2\text{cm} = \underline{\underline{12\text{cm}^2}}$$

b)



$$A = A_1 + A_2$$

$$= b_1 \cdot h_1 + b_2 \cdot h_2$$

$$= 1\text{cm} \cdot 2,5\text{cm} + 3\text{cm} \cdot 1\text{cm}$$

$$= 2,5\text{cm}^2 + 3\text{cm}^2$$

$$= \underline{\underline{5,5\text{cm}^2}}$$

5

a) $b = 2,5\text{cm}$
 $l = 6\text{cm}$

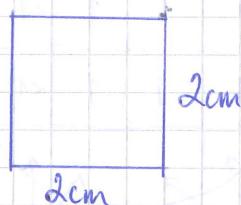


bredd
längd
hortata sida
längre sida

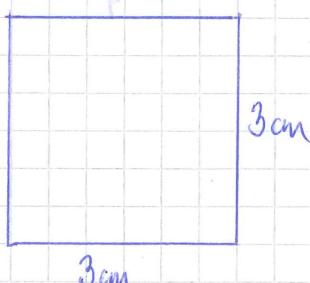
b) $A = b \cdot l = 2,5\text{cm} \cdot 6\text{cm} = \underline{\underline{15\text{cm}^2}}$

6

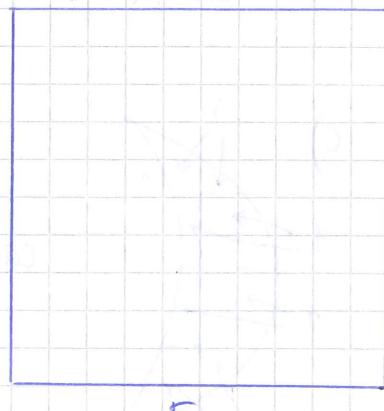
a) Kvadrat $A = 4\text{cm}^2 = 2\text{cm} \cdot 2\text{cm}$



b) Kvadrat $A = 9\text{cm}^2 = 3\text{cm} \cdot 3\text{cm}$

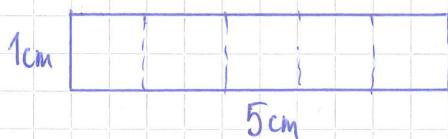


c) Kvadrat $A = 25\text{cm}^2 = 5\text{cm} \cdot 5\text{cm}$



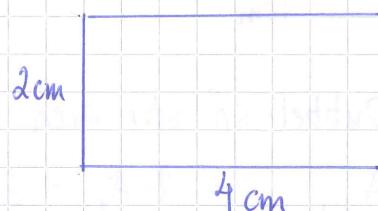
7 Rektangelns omkrets $O = 12 \text{ cm}$

$$O = 12 \text{ cm} = 2 \cdot 1 \text{ cm} + 2 \cdot 5 \text{ cm}$$



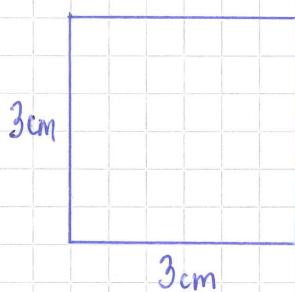
$$A = 5 \text{ cm} \cdot 1 \text{ cm} = \underline{\underline{5 \text{ cm}^2}}$$

$$O = 12 \text{ cm} = 2 \cdot 2 \text{ cm} + 2 \cdot 4 \text{ cm}$$



$$A = 4 \text{ cm} \cdot 2 \text{ cm} = \underline{\underline{8 \text{ cm}^2}}$$

$$O = 12 \text{ cm} = 4 \cdot 3 \text{ cm}$$



$$A = 3 \text{ cm} \cdot 3 \text{ cm} = \underline{\underline{9 \text{ cm}^2}}$$

OBS!

Kvadraten har alltid störst area av de rektanglarna som har lika stor omkrets!

8 Rektangelns area $A = 12 \text{ cm}^2$

$$A = 12 \text{ cm}^2 = 1 \text{ cm} \cdot 12 \text{ cm}$$



$$O = 2 \cdot 12 \text{ cm} + 2 \cdot 1 \text{ cm} = 24 \text{ cm} + 2 \text{ cm} = \underline{\underline{26 \text{ cm}}}$$

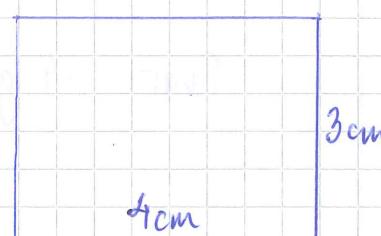
$$A = 12 \text{ cm}^2 = 2 \text{ cm} \cdot 6 \text{ cm}$$



$$O = 2 \cdot 6 \text{ cm} + 2 \cdot 2 \text{ cm}$$

$$= 12 \text{ cm} + 4 \text{ cm} = \underline{\underline{16 \text{ cm}}}$$

$$A = 12 \text{ cm}^2 = 3 \text{ cm} \cdot 4 \text{ cm}$$



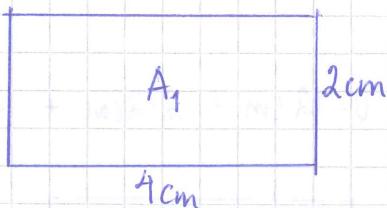
$$O = 2 \cdot 4 \text{ cm} + 2 \cdot 3 \text{ cm}$$

$$= 8 \text{ cm} + 6 \text{ cm} = \underline{\underline{14 \text{ cm}}}$$

REKTANGELNS AREA

8.44

9



$$A = b \cdot h = 4\text{cm} \cdot 2\text{cm} = 8\text{ cm}^2$$

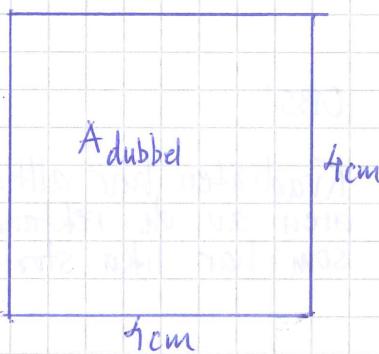
a) Dubbel så stor area

$$A_{\text{dubbel}} = 2 \cdot A_1 = 2 \cdot 8\text{ cm}^2 = 16\text{ cm}^2$$

Sidslängderna kan vara $16\text{ cm}^2 = 1 \cdot 16$

$$\begin{aligned} &= 2 \cdot 8 \\ &= 4 \cdot 4 \end{aligned}$$

och oändligt många
andra alternativ



b) Fördubblar sidslängderna

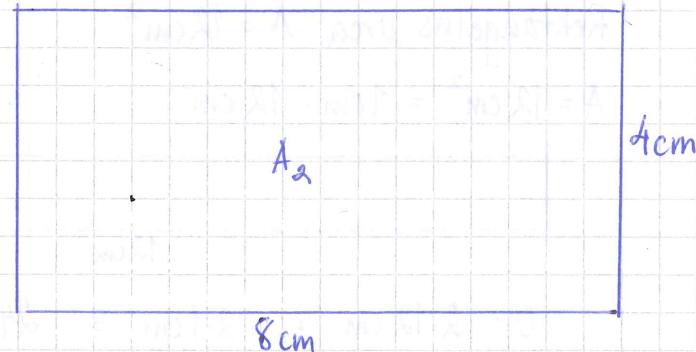
$$2 \cdot 4\text{cm} = 8\text{cm}$$

$$2 \cdot 2\text{cm} = 4\text{cm}$$

$$A_1 = 8\text{ cm}^2 \text{ (original)}$$

$$A_2 = b \cdot h = 8\text{cm} \cdot 4\text{cm}$$

$$= 32\text{ cm}^2$$



$$\text{kroten } \frac{A_2}{A_1} = \frac{32\text{ cm}^2}{8\text{ cm}^2} = 4$$

Svar: 4 gånger större area när sidslängderna fördubblats