

- b opp (I) = $\frac{1}{2}(2 + 1) \cdot 2 = 3 \text{ cm}^2$
 opp (II) = $\frac{1}{2}(4 + 2) \cdot 4 = 12 \text{ cm}^2$
 opp (III) = $\frac{1}{2}(8 + 4) \cdot 4 = 24 \text{ cm}^2$
 opp (IV) = $\frac{1}{2}(4 + 2) \cdot 2 = 6 \text{ cm}^2$
 Controle alles samen = 45 cm^2
- c $E(4, -1)$ opp (ABED) = $3 \times 6 = 18 \text{ cm}^2$.

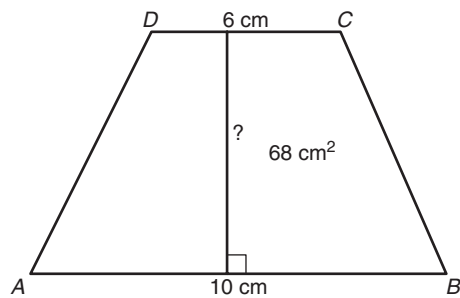
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- 61** a opp (vijfhoek) = $30 \cdot 40 - \frac{1}{2} \cdot 20 \cdot 15 = 1050 \text{ mm}^2$
 b opp (gele) = $\frac{1}{2} \cdot 8 \cdot 5 - \frac{1}{2} \cdot 6 \cdot 4 = 20 - 12 = 8 \text{ cm}^2$

- 62** opp (trapezium) = $\frac{1}{2} \cdot (28 + 49) \cdot 6 = 231 \text{ cm}^2$
 opp (gevarendriehoek) = $3 \cdot 231 = 693 \text{ cm}^2$

- 63** opp (dak) = $2 \cdot \frac{1}{2} \cdot 12 \cdot 8 + 2 \cdot \frac{1}{2} \cdot (22 + 10) \cdot 8$
 = $96 + 256 = 352 \text{ m}^2$

- 64** a



$$\frac{1}{2}(10 + 6) \cdot h = 68 \text{ cm}^2$$

$$8 \cdot h = 68$$

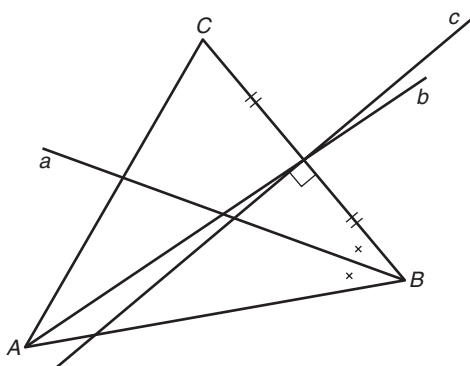
$$h = 8,5 \text{ cm}$$

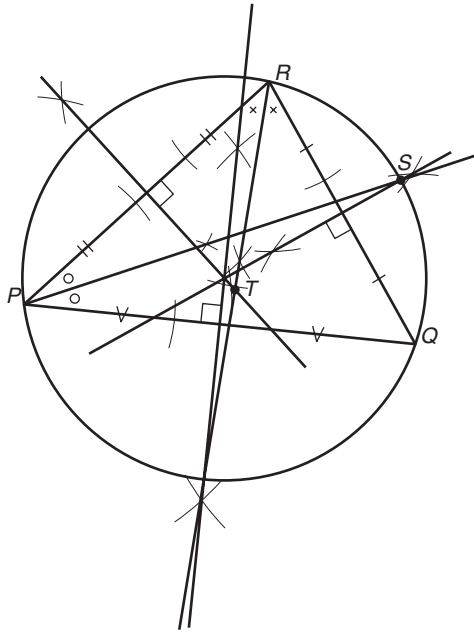
- b $\frac{1}{2}(8 + PS) \cdot 2,5 = 33,75$
 $10 + 1,25PS = 33,75$
 $1,25PS = 23,75$
 $PS = 19 \text{ cm}$.

Diagnostische toets

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- 3** a $\angle R_{12} = 180^\circ - 90^\circ - 30^\circ = 60^\circ$
 $\angle R_2 = \angle R_1 = 60^\circ : 2 = 30^\circ$
 $\angle W_2 = 180^\circ - 52^\circ - 30^\circ = 98^\circ$
 $\angle W_1 = 180^\circ - 98^\circ = 82^\circ$
 b $\angle S_4 = 180^\circ - 30^\circ - 30^\circ = 120^\circ$
 $\angle S_2 = \angle S_4 = 120^\circ$ (overstaande hoeken)

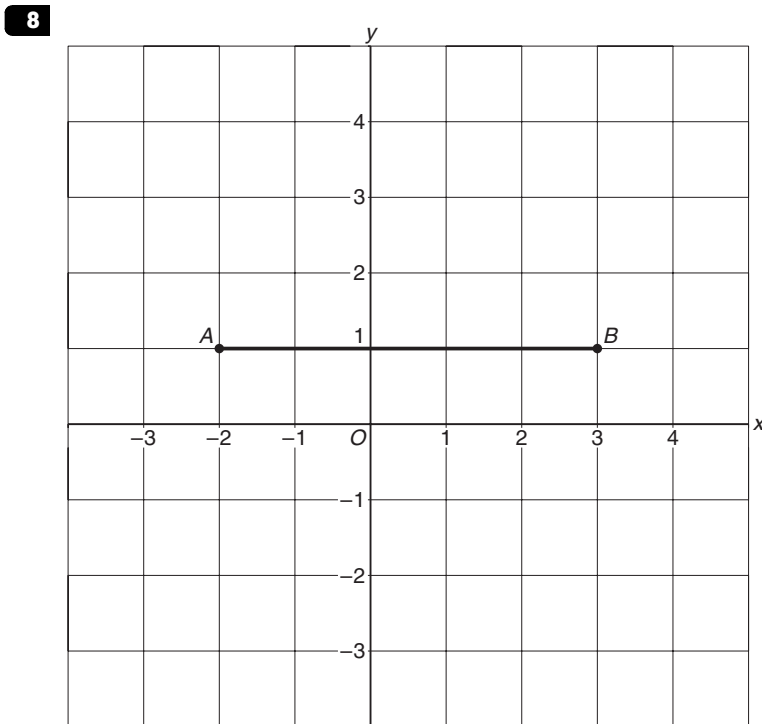
- 4** a $\angle S_1$ en $\angle F_2$
 $\angle S_2$ en $\angle F_1$
 b 4, nl. $\angle E_2$ en $\angle A$, $\angle S_4$ en $\angle F_1$, $\angle S_3$ en $\angle F_2$, $\angle D_2$ en $\angle B$
 c $\angle E_1 = \angle A = 56^\circ$
 $\angle E_1 = 180^\circ - 56^\circ = 124^\circ$
 d $\angle C_{12} = 180^\circ - 56^\circ - 74^\circ = 50^\circ$
 $\angle C_1 = \angle C_2 = 25^\circ$
 $\angle F_1 = 180^\circ - 25^\circ - 56^\circ = 99^\circ$
 $\angle S_2 = \angle S_4 = \angle F_1 = 99^\circ$

- 5** a omtrek = $1,5 + 1 + 3,5 + 2 + 1 + 1,5 + 1,5 + 1,5 + 2,5 + 3 = 19$ cm.
 b opp (figuur) = $1,5 \cdot 1 + 2 \cdot 2,5 + 1,5 \cdot 0,5 + 2 \cdot 1 = 9,25$ cm² = 925 mm²
 of
 opp (figuur) = $5 \cdot 3 - 1 \cdot 3,5 - 1,5 \cdot 1,5 = 9,25$ cm²
 = 925 mm²

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- 6** opp ($\triangle ABC$) = $\frac{1}{2} \cdot 4 \cdot 3 = 6$ cm²
 opp ($\triangle DEF$) = $\frac{1}{2} \cdot 2 \cdot 2 = 2$ cm²
 opp ($\triangle KLM$) = $\frac{1}{2} \cdot 1 \cdot 5 = 2\frac{1}{2}$ cm²

7 $\text{Opp}(\triangle ABC) = \frac{1}{2} \cdot 4,5 \cdot 5 = 11,25$
 $\frac{1}{2} \cdot BC \cdot 4 = 11,25$
 $2BC = 11,25$
 $BC = 5,625 \text{ cm}$



$\frac{1}{2} \cdot 5 \cdot h = 10$
 $h = 10 : 2\frac{1}{2} = 4 \text{ cm}$
 De y -coördinaat van C is 5 of -3 .

9 $\text{opp}(a) = 30 \cdot 40 = 1200 \text{ mm}^2$
 $\text{opp}(b) = 32 \cdot 29 = 928 \text{ mm}^2$
 $\text{opp}(c) = 25 \cdot 39 = 975 \text{ mm}^2$

10 $\text{opp}(ABCD) = 8 \times 4 = 32 \text{ cm}^2$
 $5 \times h = 32$
 $h = 32 : 5 = 6,4 \text{ cm}$

11 $\text{opp}(a) = \frac{1}{2}(46 + 18) \cdot 24 = 768 \text{ mm}^2$
 $\text{opp}(b) = \frac{1}{2}(40 + 10) \cdot 30 = 750 \text{ mm}^2$