

## Diagnostische toets 1VWO2 hoofdstuk 9

### Opgave 1:

- $7 \text{ m} = 70 \text{ dm}$
- $1,6 \text{ km} = 1600 \text{ m}$
- $8 \text{ m} = 800 \text{ cm}$
- $218 \text{ cm} = 2,18 \text{ m}$
- $141,1 \text{ cm} = 1411 \text{ mm}$
- $0,1 \text{ m} = 10 \text{ cm}$
- $600 \text{ mm} = 60 \text{ cm}$
- $1875 \text{ m} = 1,875 \text{ km}$
- $0,037 \text{ km} = 37 \text{ m}$

### Opgave 2:

15 min lopen is  $0,25 \cdot 5 = 1,25 \text{ km}$

20 min fietsen is  $\frac{1}{3} \cdot 18 = 6 \text{ km}$

dus  $6 - 1,25 = 4,75 \text{ km}$

### Opgave 3:

- $Opp = 100 \cdot 60 = 60000 \text{ m}^2$   
 $60000 : 45 = 133\frac{1}{3}$  dus 134 zakken
- $Omtrek = 2 \cdot 100 + 2 \cdot 60 = 320 \text{ m}$   
 $320 : 40 = 8$  potten

### Opgave 4:

- $8 \text{ m}^2 = 800 \text{ dm}^2$
- $5 \text{ ha} = 50000 \text{ m}^2$
- $18 \text{ km}^2 = 1800 \text{ ha}$
- $3000 \text{ dm}^2 = 30 \text{ m}^2$
- $0,7 \text{ ha} = 7000 \text{ m}^2$
- $20000 \text{ cm}^2 = 2 \text{ m}^2$

### Opgave 5:

- $Opp(\triangle ABC) = \frac{1}{2} \cdot AC \cdot BD = \frac{1}{2} \cdot 3,5 \cdot 2,9 = 5,075 \text{ cm}^2$
- $Opp(\triangle EFG) = \frac{1}{2} \cdot EF \cdot GH = \frac{1}{2} \cdot 4,1 \cdot 3,1 = 6,355 \text{ cm}^2$
- $Opp(\triangle KLM) = \frac{1}{2} \cdot LM \cdot KM = \frac{1}{2} \cdot 4,8 \cdot 3,6 = 8,64 \text{ cm}^2$

### Opgave 6:

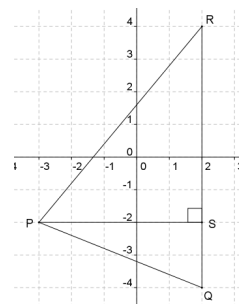
$$Opp(\triangle PQR) = \frac{1}{2} \cdot QR \cdot PS = \frac{1}{2} \cdot 8 \cdot 5 = 20$$

### Opgave 7:

- $Omtrek = 2\pi r = 2\pi \cdot 42,5 = 267,04 \text{ m}$
- $Omtrek = 2\pi r = 2\pi \cdot 44,5 = 279,60 \text{ m}$

### Opgave 8:

- $Omtrek = \frac{1}{2} \cdot 2\pi \cdot 1 + 2 \cdot 3 + 2 \cdot 1\frac{1}{2} + \frac{1}{2} \cdot 2\pi \cdot 2\frac{1}{2} = 20,0 \text{ cm} = 200 \text{ mm}$
- $Opp = \frac{1}{2} \cdot \pi \cdot 1^2 + 3 \cdot 2 + \frac{1}{2} \cdot \pi \cdot (2\frac{1}{2})^2 = 17,39 \text{ cm}^2 = 1739 \text{ mm}^2$



**Opgave 9:**

- a.  $1,2 \text{ l} = 1200 \text{ cl}$
- b.  $400 \text{ dl} = 40 \text{ l}$
- c.  $500 \text{ ml} = 0,5 \text{ l}$
- d.  $3 \text{ dm}^3 = 3 \text{ l}$
- e.  $0,4 \text{ m}^3 = 400 \text{ dm}^2$
- f.  $3 \text{ dm}^3 = 3000 \text{ cl}$
- g.  $300 \text{ cl} = 0,3 \text{ l}$
- h.  $3 \text{ dm}^3 = 3000 \text{ cm}^3$
- i.  $2,5 \text{ l} = 2500 \text{ ml}$

**Opgave 10:**

$$Inh = 500 \cdot 150 \cdot 0,44 = 33000 \text{ dm}^3 = 33000 \text{ liter}$$