

### 4 Guhkkodagat ja Čiegat

#### Hárjehus 1

a) Das go golmmačiegahasat  $ABC$  ja  $PQR$  leat ovttahámagat, de lea

$$\angle P = \angle A = \underline{\underline{39,8^\circ}}$$

$$\angle B = \angle Q = \underline{\underline{59,0^\circ}}$$

Golmmačiegahasa čiehkasubmi lea  $180^\circ$ . Dat addá

$$\angle C = 180^\circ - \angle A - \angle B = \angle C = 180^\circ - 39,8^\circ - 59,0^\circ = \underline{\underline{81,2^\circ}}$$

$$\angle R = \angle C = \underline{\underline{81,2^\circ}}$$

á) Das go  $\triangle ADC$  lea njuolggočieгат, de sáhttit geavahit pytagorascealkaga.

$$AC^2 = AD^2 + DC^2$$

$$AC^2 = 3,0^2 + 2,5^2 = 15,25$$

$$AC = \sqrt{15,25} = 3,9$$

$$\underline{\underline{AC = 3,9 \text{ cm.}}}$$

Mii geavahit fas pytagorascealkaga  $\triangle DBC$ :s..

$$BC^2 = DB^2 + DC^2$$

$$BC^2 = 1,5^2 + 2,5^2 = 8,50$$

$$BC = \sqrt{8,50} = 2,9$$

$$\underline{\underline{BC = 2,9 \text{ cm.}}}$$

b) Govvosis lea mis:  $AB = AD + DB = 3,0 \text{ cm} + 1,5 \text{ cm} = 4,5 \text{ cm}$

Dasgo golmmačiegahasat leat ovttahámagat, de sáhttit bidjat nuppi golmmačiegahasa guovtti siidduid gori seamma gorrái go vástideaddji siiddut nuppi golmmačiegahasas.

$$\frac{PR}{PQ} = \frac{AC}{AB}$$

$$\frac{PR}{10 \text{ cm}} = \frac{3,9 \text{ cm}}{4,5 \text{ cm}}$$

$$PR = \frac{3,9 \text{ cm}}{4,5 \text{ cm}} \cdot 10 \text{ cm} = \underline{\underline{8,7 \text{ cm}}}$$

$$\frac{QR}{PQ} = \frac{BC}{AB}$$

$$\frac{QR}{10 \text{ cm}} = \frac{2,9 \text{ cm}}{4,5 \text{ cm}}$$

$$QR = \frac{2,9 \text{ cm}}{4,5 \text{ cm}} \cdot 10 \text{ cm} = \underline{6,4 \text{ cm}}$$

## Hárjehus 2

a) 1) Mii diehtit ahte 1 cm lea 10 mm. Dat addá

$$0,25 \text{ cm} = 0,25 \cdot 10 \text{ mm} = \underline{2,5 \text{ mm}}$$

2) Das go 1 dm lea 0,1 m, de oažžut

$$24,6 \text{ dm} = 24,6 \cdot 0,1 \text{ m} = \underline{2,46 \text{ m}}$$

á) Das go mikromihtádasskruvva mihtidandárkilvuohta lea 0,01 mm, de oažžut:

$$\text{Stuorámus diamehter: } 0,36 \text{ mm} + 0,01 \text{ mm} = \underline{0,37 \text{ mm}}$$

$$\text{Unnimus diamehter: } 0,36 \text{ mm} - 0,01 \text{ mm} = \underline{0,35 \text{ mm}}$$

b) Mii geahččat garáša guhkkodaga. Das go 4,0 m = 400 cm, de oažžut mii

$$\frac{\text{guhkkodat tevnegis}}{\text{guhkkodat duohtailmmis}} = \frac{\cancel{8,0} \text{ cm}}{\cancel{400}_{50} \text{ cm}} = \frac{1}{50}$$

Bargotevnnega mihttolávva lea 1 : 50