

## 5.7 kader: Pythagoras - Gemengde opgaven.

7.)  $\triangle ABC \rightarrow$  korte zijde

$$\begin{array}{r|l} k_2 = 6 & 36 \\ k_2 = ? & \\ \hline l_2 = 7,2 & 51,84 \end{array} +$$

$$51,84 - 36 = 15,84$$

$$\sqrt{15,84} = 3,98$$

$$AC = 4,0 \text{ cm}$$

$\triangle DEF \rightarrow$  korte zijde

$$\begin{array}{r|l} k_2 = 8,9 & 79,21 \\ k_2 = ? & \\ \hline l_2 = 10 & 100 \end{array} +$$

$$100 - 79,21 = 20,79$$

$$\sqrt{20,79} = 4,5596$$

$$DE = 4,6 \text{ cm}$$

$\triangle onm \rightarrow$  lange zijde

$$\begin{array}{r|l} k_2 = 2,6 & 6,76 \\ k_2 = 8 & 64 \\ \hline l_2 = ? & 70,76 \end{array} +$$

$$\sqrt{70,76} = 8,412$$

$$om = 8,4 \text{ cm}$$

$\triangle GHI \rightarrow$  korte zijde

$$\begin{array}{r|l} k_2 = 7,2 & 51,84 \\ k_2 = ? & \\ \hline l_2 = 8,5 & 72,25 \end{array} +$$

$$72,25 - 51,84 = 20,41$$

$$\sqrt{20,41} = 4,5177$$

$$HI = 4,5 \text{ cm}$$

$\triangle JKL \rightarrow$  lange zijde

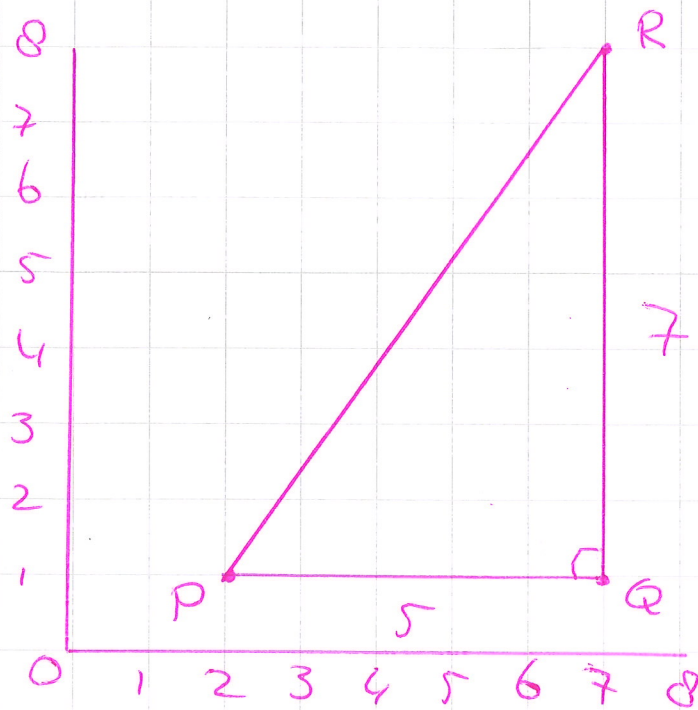
$$\begin{array}{r|l} k_2 = 4,5 & 20,25 \\ k_2 = 8,9 & 79,21 \\ \hline l_2 = ? & 99,46 \end{array} +$$

$$\sqrt{99,46} = 9,97$$

$$KL = 10,0 \text{ cm}$$

8.)

a.)



b.)

$$\begin{array}{r|l}
 k_2 = 5 & 25 \\
 k_2 = 7 & 49 \\
 l_2 = ? & \hline
 & 74
 \end{array} +$$

$$\sqrt{74} = 8,6 \text{ cm}$$

g.)

$\Delta ABC$

$$\begin{array}{r|l}
 k_2 = 7,2 & 51,84 \\
 k_2 = 13,5 & 182,25 \\
 l_2 = \dots & \hline
 & 234,09
 \end{array} +$$

$$\sqrt{234,09} = 15,3 \text{ cm}$$

AC = 16 cm dus  
geen rechte hoek

$\Delta DEF$

$$\begin{array}{r|l}
 k_2 = 7,9 & 62,41 \\
 k_2 = 7,4 & 54,76 \\
 l_2 = \dots & \hline
 & 117,17
 \end{array} +$$

$$\sqrt{117,17} = 10,8 \text{ cm}$$

DF = 10,6 cm dus  
geen rechte hoek

$\Delta onm$

$$\begin{array}{r|l}
 k_2 = 9,4 & 88,36 \\
 k_2 = 8,3 & 68,89 \\
 l_2 = \dots & \hline
 & 157,25
 \end{array} +$$

$$\sqrt{157,25} = 12,5 \text{ cm}$$

nm = 11,6 cm dus  
geen rechte hoek