

Homework Check:

| 1. 18 cm | 6.28 |  |
| :--- | :--- | :--- |
| 2. 12 cm 7.16 cm <br> 3. 21 cm 8.60 cm | 17. $A B=3 \mathrm{~cm}, B C=7.5 \mathrm{~cm}$ |  |
| 4. 15 cm | 9. $4 \frac{4}{9} \mathrm{~cm}$ |  |
| 5. 2.0 cm | 10. $\frac{a}{b}=\frac{p}{q}, \frac{a}{p}=\frac{b}{q}$ |  |

## 7.5 - Proportional Segments in parallel

 lines
### 7.5 Computer Investigation

Parallel/Proportionality Conjecture: If a line parallel to one side of a triangle passes through the other two sides, then it divides the other two side proportionally. Conversely, if a line cuts two sides of a triangle proportionally, then it is parallel to the third side.


Extended Parallel/Proportionality Conjecture: If two or more lines pass through two sides of a triangle parallel to the third side, then they divide the two sides proportionally.

$$
\begin{aligned}
& \frac{j}{K}=\frac{m}{n} \quad \frac{j}{l}=\frac{m}{o} \\
& \frac{K}{l}=\frac{n}{o}
\end{aligned}
$$


$\square$

