

Worksheet 2015-8 EL-00003(1)

- (1) (a) Construct $PQ = 7 \text{ cm}$.
(b) Construct the perpendicular bisector of PQ .
- (2) (a) Draw line $AB = 65 \text{ mm}$.
(b) Construct $\angle CAB = 55^\circ$.
(c) Draw $AC = 65 \text{ mm}$.
(d) Construct $\angle ABD = 125^\circ$.
(e) Draw $BD = 6,5 \text{ cm}$.
(f) Join CD and measure the unknown sides and angles.
(g) Which type of quadrilateral is $ABDC$?
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- (3) (a) Construct $\triangle KLM$ with $\widehat{K} = 90^\circ$, $KL = 60$ mm and $KM = 80$ mm.
(b) Bisect $\widehat{M}$.
(c) Measure the length of LM and calculate LM^2 .
(d) Calculate: $KL^2 + KM^2$
(e) What do you notice about your answers in (c) and (d)?

(4) Construct three concentric circles with radii: 3 cm, 5 cm and 75 mm.

(5) (a) Construct the diagram below according to the given dimensions:

$$XY = VW = 10 \text{ cm}$$

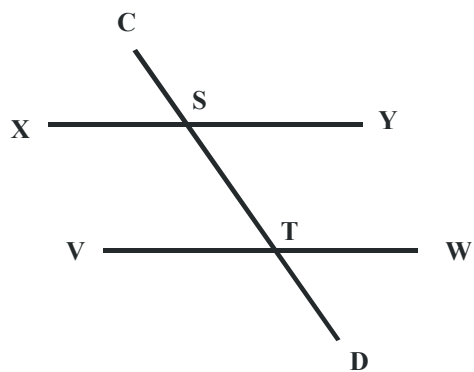
$$WT = 45 \text{ mm}$$

$$\widehat{WTC} = 120^\circ$$

$$ST = SY = 50 \text{ mm}$$

$$\widehat{TSY} = 60^\circ$$

$$CS = TD = 30 \text{ mm}$$



(b) What do you notice regarding XY and VW? Motivate.
