Quadrilaterals Ex 14.2 Q4

Answer :

Let the shorter side of the parallelogram be $x\,cm$.

The longer side is given as $6.5\,cm$.

Perimeter of the parallelogram is given as 22 cm

Therefore,

$2[x+6.5]=22$

$2[x+6.5]=22$

$\quad x+6.5=11$

$\qquad x=11-6.5$

$x=\boxed{4.5}$

Hence, the measure of the shorter side is $\boxed{4.5}$ cm.

Quadrilaterals Ex 14.2 Q5

Answer :

It is given that $ABCD$ is a parallelogram with $\angle D = 135^0$

We know that the opposite angles of the parallelogram are equal.

Therefore,

$\angle B = \angle D$

$\angle B = \boxed{135^0}$

Also, $\angle A$ and $\angle B$ are adjacent angles, which must be supplementary.

Therefore,

$\angle A + \angle B = 180^0$

$\angle A + 135^0 = 180^0$

$\qquad \angle A = 180^0 - 135^0$

$\qquad \angle A = \boxed{45^0}$

Hence , $\boxed{\angle A = 45^0}$ and $\boxed{\angle B = 135^0}$.

********** END *********