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Quadrilaterals Ex 14.1 Q1

**Answer :**

Let the measure of the fourth angles be $x°$. We know that the sum of the angles of a quadrilateral is 360°.

Therefore,

$$110+50+40+x=360$$
$$200+x=360$$
$$x=360-200$$
$$x=\boxed{160}$$

Hence the measure of the fourth angle is $\boxed{160^0}$.

Quadrilaterals Ex 14.1 Q2

**Answer :**

We have , $\angle A:\angle B:\angle C:\angle D=1:2:4:5$.

So, let $\angle A=x$ ,

$\angle B=2x$ ,

$\angle C=4x$

And $\angle D=5x$

By angle sum property of a quadrilateral, we get:

$$\angle A+\angle B+\angle C+\angle D=360$$
$$x+2x+4x+5x=360$$
$$12x=360$$
$$x=\frac{360}{12}$$
$$x=\boxed{30}$$
$$\angle A=x$$
$$\angle A=\boxed{30^0}$$

Also,

$$\angle B=2x$$
$$\angle B=2(30^0)$$
$$\angle B=\boxed{60^0}$$

And

$$\angle C = 4x$$

$$\angle C = 4(30^0)$$

$$\angle C = \boxed{120^0}$$

Similarly,

$$\angle D = 5x$$

$$\angle D = 5(30^0)$$

$$\angle D = \boxed{150^0}$$

Hence, the four angles are $\boxed{30^0}$, $\boxed{60^0}$, $\boxed{120^0}$ and $\boxed{150^0}$.

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