

Segments in circles

Segments intersecting the circle make proportional ratios

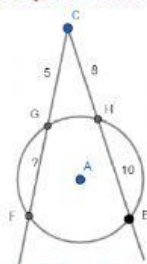
*exterior part * whole*

$$CG * CF$$

$$(5) * (5 + ?)$$

$$CH * CB$$

$$(8) * (18)$$



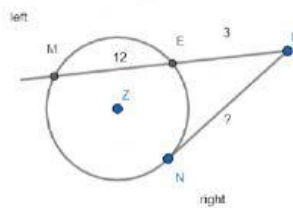
$$(5) * (5 + ?) = (8) * (18) \quad \text{plug in and solve}$$

$$(5 + ?) = \frac{(8) * (18)}{5}$$

$$? = \frac{(8) * (18)}{5} - 5$$

What is the length of the RV?

*exterior part * whole*



$$(exterior\ part) * (whole) = (exterior\ part) * (whole)$$

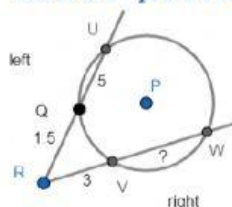
$$() * () = () * () \quad \text{segments}$$

$$() * () = () * () \quad \text{plugin}$$

$$() = ()^2 \quad \text{multiply}$$

$$= ? \quad \text{ans}$$

What is the length of the RV?



$$(exterior\ part) * (whole) = (exterior\ part) * (whole)$$

$$() * () = () * () \quad \text{segments}$$

$$() * () = () * () \quad \text{plugin}$$

$$\frac{() * ()}{()} = () \quad \text{divide}$$

$$\frac{() * ()}{()} - = ? \quad \text{subtract}$$

$$= ? \quad \text{ans}$$