



Formula: $\underline{a \cdot b = c \cdot d}$

Examples:



$$21 \cdot x = 15 \cdot 14$$

$$21x = 210$$

$$\boxed{x = 10}$$



$$12x = 8 \cdot 9$$

$$12x = 72$$

$$\boxed{x = 6}$$

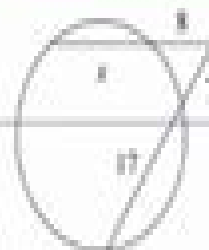
Secants Theorem: If two secant segments are drawn to a circle from the same external point, the product of the length of one secant segment and its external part is equal to the product of the length of the other secant segment and its external part.



Formula: $\underline{a \cdot b = c \cdot d}$

Exterior × Whole = Exterior × Whole

Examples:



Secants & Tangents Theorem: If a secant segment and tangent segment are drawn to a circle from the same external point, the product of the length of the secant segment and its external part is equal to the square of the length of the tangent segment.

Formula: $a \cdot b = c^2$



Geometry Springboard Unit 4

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