WEEK 17 – WEEKLY MATHS CHALLENGE

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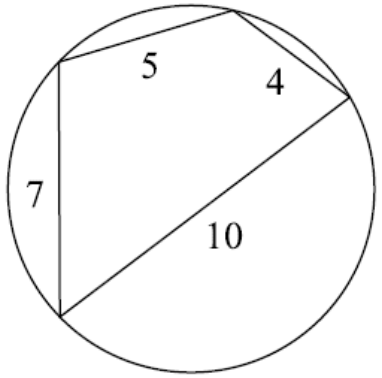
Brahmagupta (598 – 670 AD) gave the following formula for the area of a cyclic quadrilateral:

$$A = \sqrt{(s-a)(s-b)(s-c)(s-d)},$$

where *a, b, c* and *d* are the 4 sides, and *s* is ***half*** the perimeter of the quadrilateral.



Find the area of this cyclic quadrilateral.

KEYS TERM OF THE WEEK

Cyclic Quadrilateral: a four-sided shape where all four vertices are on the circumference (also, opposite angles in a cyclic quadrilateral always add to make 180°.

Mrs. Ray's fun maths fact:

"I usually spend about $\sqrt{13225}$ *minutes running every week!"*

Submit your answers on a piece of paper with your name and form on by the END OF FRIDAY to the box by **student services**.
Winner revealed next Wednesday!