Angle properties part 2

Whether you are a parent, teacher or home school educator, we've compiled examples of activities, games and puzzles which can be used to support the learning of shape and space.

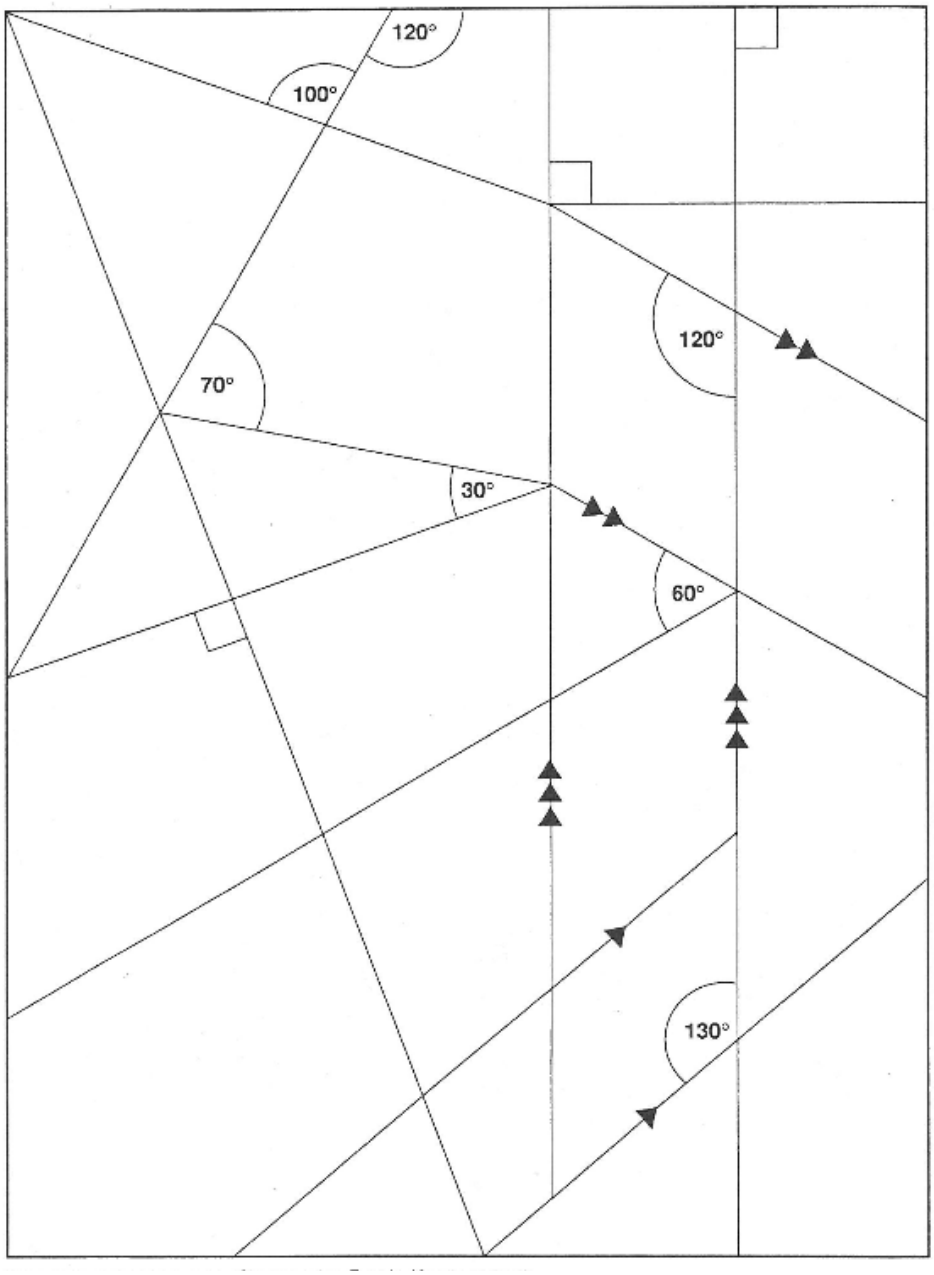
These examples are taken from the 'angle properties' packs found in our SMILE resource collection. The mathematical demand increases as you work through the packs. There are lots more ideas in the complete packs, which can be downloaded at https://www.stem.org.uk/rxzf3

You may want to have the Geometry Facts to hand: https://www.stem.org.uk/rxzf4
Answers to cards can be found at https://www.stem.org.uk/rxxo5

Smile Worksheet **2173**

UNMARKED ANGLES

Work out the unmarked angles inside this rectangle.
(Do **not** use an angle indicator.)



0731

You will need: angle indicator, graph paper

REGULAR POLYGONS
or
'The V and A'

n = number of sides
V = angle at each vertex
A = angle at centre

IS THERE ANY CONNECTION BETWEEN
V AND A?

(1) MEASURE angles V and A for the different regular polygons on pages 2 and 3.

(2) RECORD YOUR RESULTS

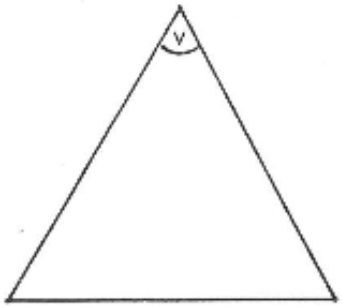
in a table:

Polygon	n	V	A
Triangle	3	60°	120°
Square	4	90°	

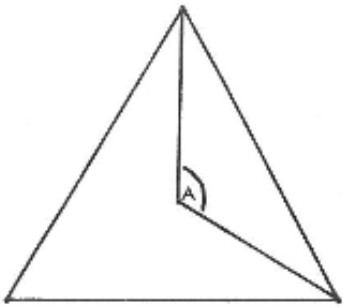
(3) PLOT A GRAPH of your results. Plot V on one axis against A on the other.

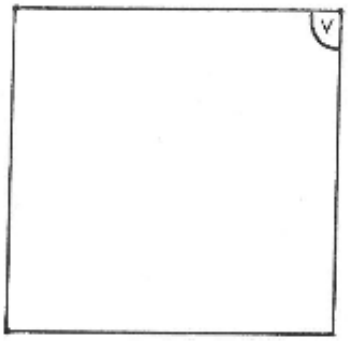
(4) Why should you NOT join the points on this graph?

(5) What does your table and/or graph suggest about a connection between V and A?

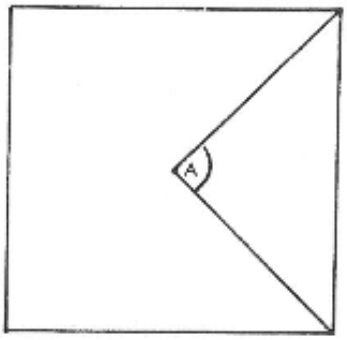


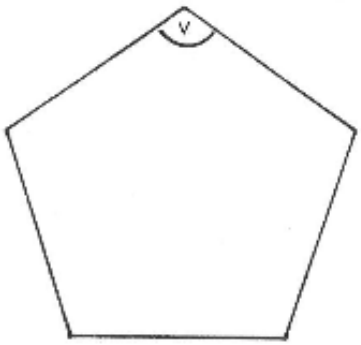
EQUILATERAL
TRIANGLE



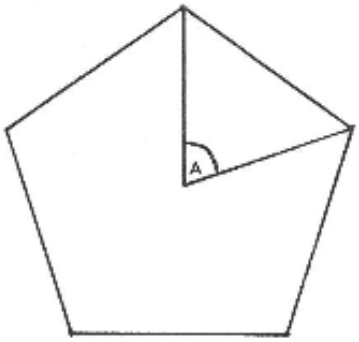


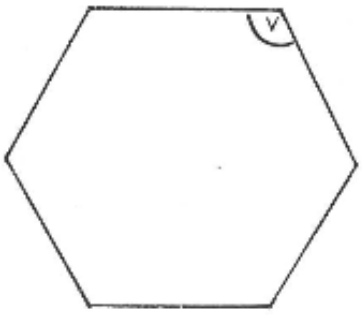
REGULAR
QUADRILATERAL
(SQUARE)

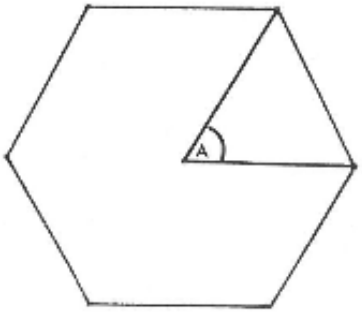


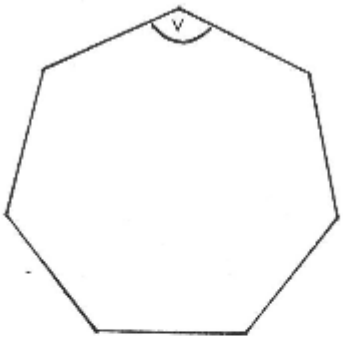


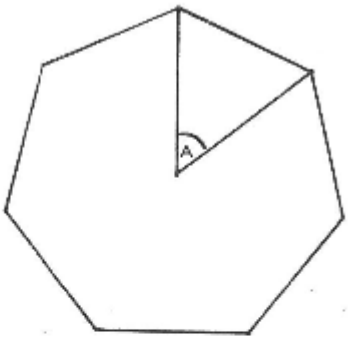
REGULAR
PENTAGON

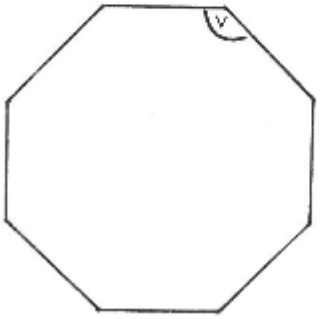


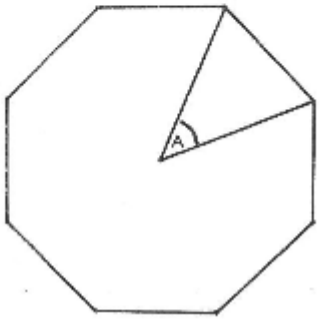


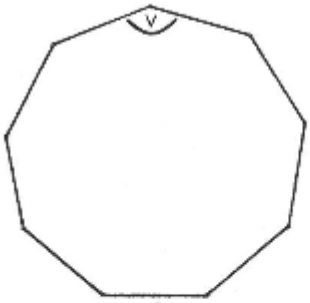


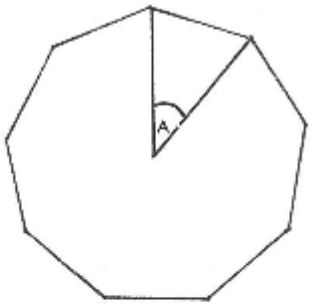

V

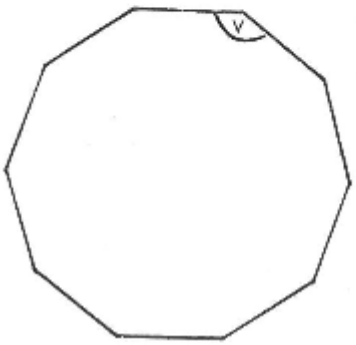

A

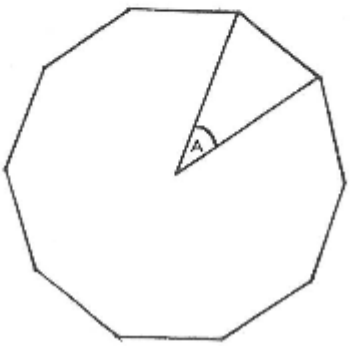

V


A


V


A


V


A