Walt solve angles involving triangles and polygons Success Criteria

- I can identify different types of triangles and polygons.
- I can use the properties of triangles and polygons to find missing angles.
- I can solve problems involving angles in triangles and polygons

Important information

Triangles

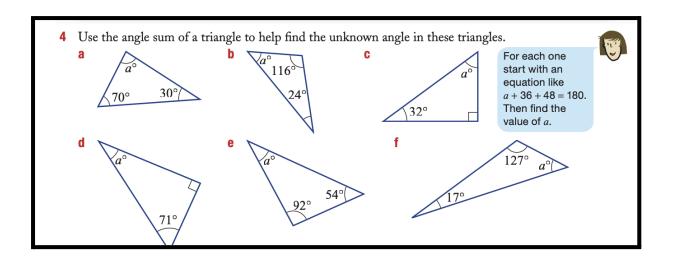
- Equilateral triangle: All three angles are equal.
- Isosceles triangle: Two of the angles are equal.
- Scalene triangle: All three angles are different.

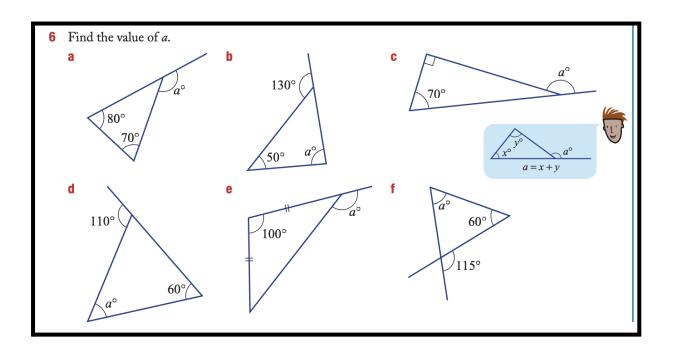
Polygon

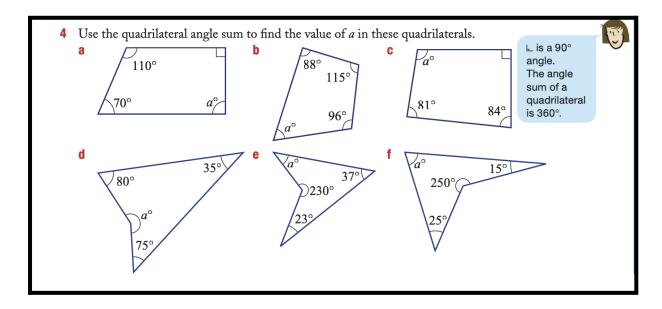
- Square: All four sides are equal and all four angles are right angles.
- Rectangle: All four sides are parallel and all four angles are right angles.
- Rhombus: All four sides are equal, but the angles are not necessarily right angles.
- Parallelogram: All opposite sides are parallel, but the angles are not necessarily right angles.
- Trapezoid: One set of parallel sides, but the other set of sides may or may not be parallel.
- Regular polygon: All sides are equal and all angles are equal.

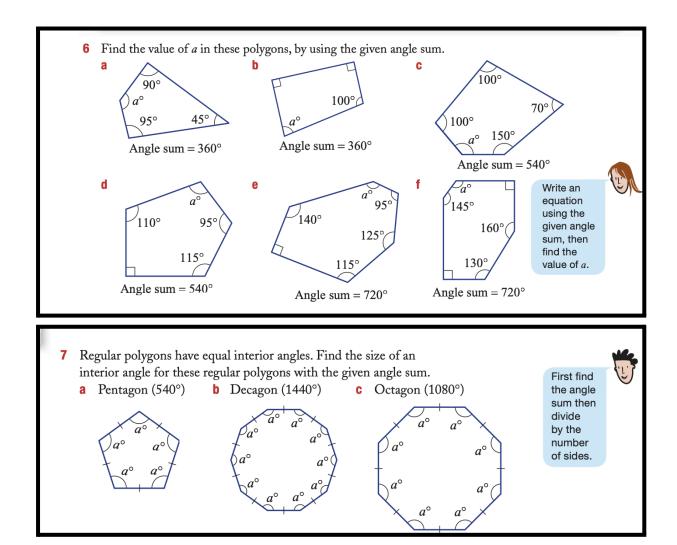
Important formula

Sum of angles = (n-2)*180

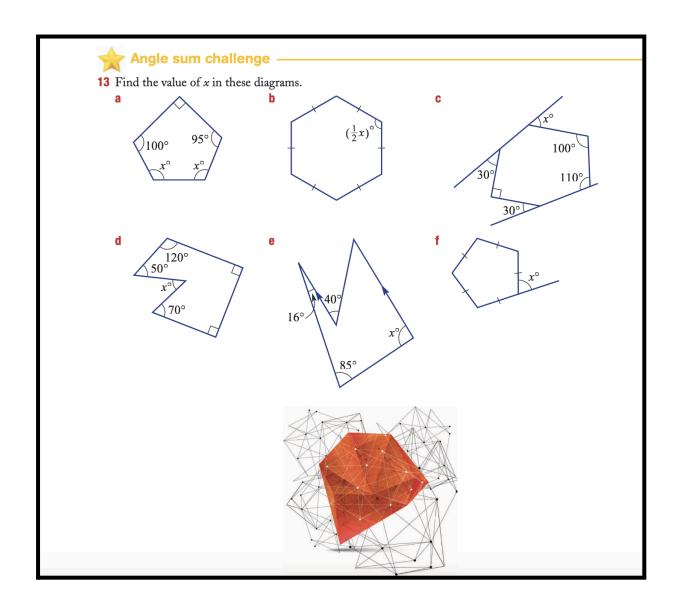








Extension



Answers

- 4 a 80
- **b** 40
- **c** 58

- **d** 19
- **e** 34
- **f** 36

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- 10
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- 6 a 150
- **b** 80
- **c** 160

- **d** 50
- **e** 140
- **f** 55

Polygon

- **4 a** 90
- **b** 61
- **c** 105

- **d** 170
- **e** 70
- **f** 70

6 a square, rhombus

b trapezium
c rectangle, parallelogram, kite
d square, rhombus, kite
e square, rectangle
7 a 152 b 69 c 145
d 74 e 59 f 30

13 a 127.5 b 240 c 60
d 60 e 79 f 72