

### Exercise 9A

1 Students' own answers

- 2 a 1080°    b 900°    c 1440°    d 1260°

Shape	Number of sides, $n$	Sum of interior angles	$n - 2$	$(n - 2) \times 180^\circ$
Triangle	3	180°	1	180°
Quadrilateral	4	360°	2	360°
Pentagon	5	540°	3	540°
Hexagon	6	720°	4	720°
Heptagon	7	900°	5	900°
Octagon	8	1080°	6	1080°
Nonaagon	9	1260°	7	1260°
Decagon	10	1440°	8	1440°

b They are the same

- c i 1620°    ii 3240°    d 17

- 4 a 120°    b 126°    c 107°    d 90°

5 Any two angles, each less than 180° with a sum of 240°

6  $180(n - 2)^\circ$

7 No, with a correct explanation e.g.

- a 12-sided shape has interior angles summing to  $(12 - 2) \times 180 = 1800$  and  $3 \times 360 = 1080$
- 3 lots of 360 is the same as 6 lots of 180 which gives the sum of interior angles of an octagon

8  $x = 140^\circ$ ,  $y = 125^\circ$ ,  $z = 65^\circ$

9 It is not a multiple of 180°

10 160°

11  $x = 20$

### Exercise 9B

1 interior = 108°, exterior = 72°

2 a i 60°    ii 45°    iii 40°    iv 51.4°

b i 120°    ii 135°    iii 140°    iv 128.6°

3 Equilateral triangle: 3, 120°, 60°. Square: 4, 90°, 90°. Heptadecagon: 17, 32.7°, 147.3°. Dodecagon: 12, 30°, 150°

4 exterior = 10°, interior = 170°

5 a  $a = 72^\circ$ ,  $b = 108^\circ$     b  $x = 56^\circ$     c  $m = 95^\circ$

d  $d = 115^\circ$ ,  $e = 120^\circ$

6 a 16    b 30

7 a 20°    b 18

8 42

9 No (see Teacher Book for explanation)

10 60°

### Exercise 9C

1-3 Students' own answers

4 There are gaps between the circles.

5 b i, ii and iv tessellate

7 a  $a = e = 60^\circ$ ,  $b = 90^\circ$ ,  $c = d = 30^\circ$

b  $a = d = e = 70^\circ$ ,  $b = c = 110^\circ$

c  $a = e = d = c = 30^\circ$ ,  $b = 60^\circ$

8 rotation and translation

9 a yes    b 360°    c 60°

### Exercise 9D

The quadrilateral will be a square, because the exterior angles of two octagons add to 270°, thus requiring a further 90° to make 360°

1 Interior angle of a pentagon is 108°.  $3 \times 108 = 324$  and  $4 \times 108 = 432$ . Neither of these answers are 360°, so to tessellate the angles must make 360°

2 Interior angle of an octagon is 135°.  $3 \times 135 = 405$  and  $2 \times 135 = 270$ . Neither of these answers are 360°, so to tessellate the angles must make 360°

3 Interior angle of a heptagon is 128.6°.  $3 \times 128.6 = 385.7$  and  $2 \times 128.6 = 257.2$ . Neither of these answers are 360°, so to tessellate the angles must make 360°

4 a rhombus

b 35°, 36°, 144°, 144°

5 square because two octagons make 270° and 90° to make that up to 360°

6 a rhombus and an equilateral triangle.

### Exercise 9E

1 a  $x = 120^\circ$ ,  $y = 60^\circ$ ,  $z = 80^\circ$

b  $p = 103^\circ$ ,  $q = 77^\circ$ ,  $r = 165^\circ$ ,  $s = 77^\circ$

c  $f = m = a = 78^\circ$

d  $x = 123^\circ$ ,  $y = 135^\circ$ ,  $v = 57^\circ$ ,  $w = 135^\circ$

2  $a = 60^\circ$ ,  $b = 78^\circ$

3  $a = 123^\circ$ ,  $b = 83^\circ$ ,  $c = 140^\circ$ ,  $d = 97^\circ$

4  $w = 80^\circ$ ,  $x = 35^\circ$ ,  $y = 65^\circ$ ,  $z = 94^\circ$

5 a 67    b 120    c 66    d 72

6  $x = 65$ ,  $y = 58$

7 There are many possible explanations, here is one:

$\angle BDC = 60^\circ$ , angles on a line add up to 180°

$\angle EDC = 30^\circ$ , angles in a triangle add up to 180°

$\angle BCD = 30^\circ$ , alternate angle to  $\angle EDC$

$\angle ADC = 125^\circ$ , angles on a line add up to 180°

$\angle ABC = 125^\circ$ , angles in a quadrilateral add up to 360°

Since  $\angle ADC = \angle ABC$  and  $AD = AB$  then ABCD is a kite.

8 a  $a = 113^\circ$ ,  $b = 67^\circ$ ,  $c = 126^\circ$

b  $d = 66^\circ$ ,  $e = 48^\circ$ ,  $f = 73^\circ$

9 72°, 108°, 72°, 108°

10  $a = 36^\circ$      $b = 72^\circ$

11  $x = 30^\circ$      $y = 120^\circ$      $z = 60^\circ$

### Exercise 9F

1 a (4, 6)

b i (1, 13)    ii (3, 9)

c i (0, 4)    ii (2, 1)

d i (-2, 11)    ii (2, 5)

2 a (8, 4)    b (3, 3)    c (58, 60)

3 The sketch is wrong. It should look like this:



# Chapter 9 Answers

**Chao Zhang**



## Chapter 9 Answers:

## **Chapter 9 Answers** Book Review: Unveiling the Power of Words

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