

HIGHER Practice Paper C

1(a) Work out **the interior** angle of a regular pentagon.

(b) Work out **the exterior** angle of a regular octagon

2 (a) A polygon has an **exterior** angle of 40° . How many sides does it have?

(b) A polygon has an **interior** angle of 150° . How many sides does it have?

3. Solve the following equations

(a) $4x - 5 = 19$

(b) $13 - 2x = 4 + x$

(c) $3(x + 4) = 30$

(d) $4 - x = 4(x - 3)$

4. Show 60cm as a percentage of 3 metres.

5. (a) Increase £560 by 15%

(b) Decrease £1200 by 15%

6. Work out the **percentage loss** on a car, bought for £8950 and sold for £7500

7. Calculate the **area** of a circle with radius 12cm.

8. A **sector** has radius 15cm and angle at the centre of 45° .

(i) Work out the area of the sector.

(ii) Work out the length of the arc

9. Complete the table for the following straight line graphs

	Gradient value	Intercept value	Value of y when x = 5
$y = 2x$	2	0	10
$y = 4x - 1$			
$y = \frac{1}{2}x + 3$			
$y = x + 2$			

10. Complete the **table of values** for the curve $y = x^2 - 2x - 3$

x	- 3	- 2	- 1	0	1	2	3
y		5		-3			0

(b) **Sketch** the graph below using the given axes. Make clear important points.

