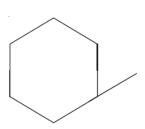
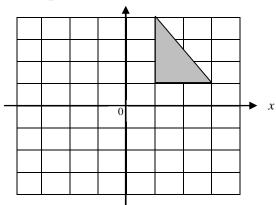
- 1) a) If b = 4 and r = -5 find the value of:
 - (i) 3*b*
 - (ii) b^2
 - (iii) $5b^2$
 - (iv) 4b-2r
 - (v) 2(3b+r)

(vi)
$$\frac{4b-r}{7}$$

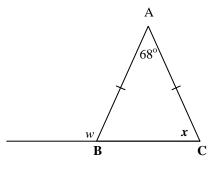
- (b) Colin said "when y = 5, then the value of $4y^2$ is 400" Sue said " when y = 5, then the value of $4y^2$ is 100" Who is right? Explain why.
- 2) Work out the answer to $38 3 \times 5$
- 3) What is 2.3×0.12
- 4) a) Work out $\frac{6}{10}$ of 400 b) Work out $\frac{2}{6}$ of 600 c) Work out $\frac{3}{8}$ of 64
- 5) Find the exterior angle of this regular hexagon.



- 6) a) Reflect the shaded shape in the x axis and label it S.
 - b) Rotate S 90° clockwise using (0, 0) as the centre of rotation and label the new shape T.
 - c) Describe fully the single transformation that will move T back onto the shaded shape. *y*

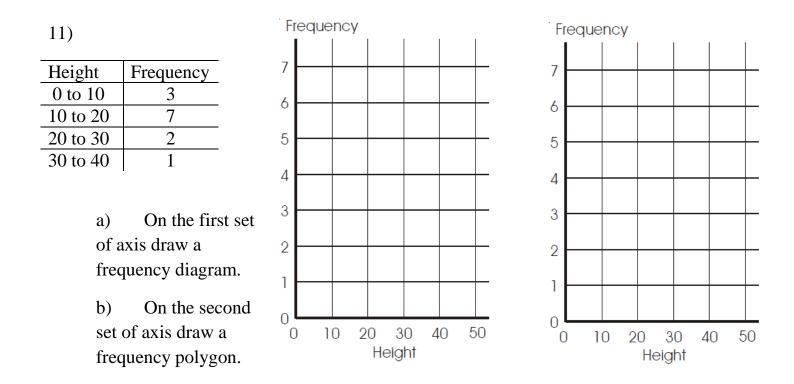


6) 7) Find the size of the angles w and x, giving reasons.



- 8) a) Sara buys 34 litres of diesel at £1.43 per litre. How much does she spend altogether on diesel?
 - b) Sid spends £57.12 on 41 litres of petrol. How much was each litre of petrol?
- 9) Find the following:
 - a) 40% of £240
 - b) 15% of £800
 - c) 85% of £600
 - d) 17.5% of £440

10)	a)	$\frac{3}{4} + \frac{1}{3}$
	b)	$\frac{5}{7} + \frac{3}{5}$
	c)	$\frac{3}{10} \times \frac{5}{8}$
	d)	$\frac{4}{5} \div \frac{2}{10}$



- 12) a) In a room there are 11 boys and 9 girls. What percentage of the children are boys?
 - b) In a room there are 13 boys and 12 girls.What percentage of the children are girls
 - c) Emma scores 54 marks out of 60 in a History test. What was her percentage score?
- 13) What are the first 5 terms of the number sequence with the n^{th} term of 4n 2?