PLACE VALUE, ROUNDING AND ESTIMATING a) Round 358.26 to: 　i)　　1 decimal place 　ii)　　1 significant figure b) Tickets cost £6.87. **Approximately** how much would it be for 21 tickets.	**TYPES OF NUMBER** Write 72 as a product of prime factors.
ARITHMETIC INCLUDING DECIMALS Work out 312×24	**NUMBER SQUARES** a) Find the nth term: 　i)　　2, 9, 16, 23 　ii)　　10, 8, 6, 4 b) Given 3n + 1, find the first three terms of the sequence.
FRACTIONS Work out: a) $\frac{3}{5} - \frac{1}{4}$ b) $1\frac{2}{3} \times 2\frac{1}{4}$	**PERCENTAGES** a) James scored 135 out of 180 in a test. What % did James get? b) A wage of £420 was increased by 7.5%. Calculate the new wage.
NEGATIVES/CALC/BIDMAS/INDICES a) Work out 　-3×7 　$-3 + -7$ 　$-10 \div -2$ 　$-10 - -2$ b) Work out 　$5 \times 3 + 2 \times 4^2$	**RATIO** a) Share £420 in the ratio 4:3. b) 4 buns use 200g of flour. I have 1.6 kg of flour how many buns can I make?

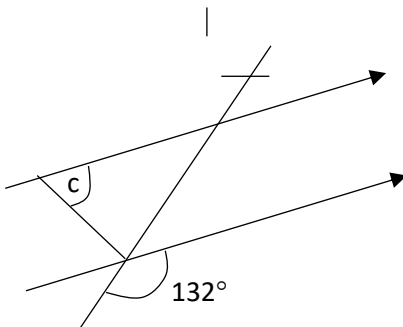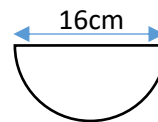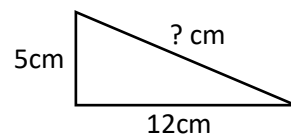| **SIMPLIFY ALGEBRA/ SUBSTITUTION**	**ALGEBRA BRACKETS**
a) Simplify $3pq + 4p - pq - 2q + p$ b) A formula for finding the cost of a holiday is $C = 20n + 50$ where n is the number of days. Find the cost for 2 weeks.	Expand and simplify $$(2x + 5)(x - 3)$$
SOLVE EQUATIONS Solve a) $5x - 9 = 12 - 2x$ b) $2(3p - 4) = 7$	**AREA/ PERIMETER/ VOLUME** a) This rectangle has area 42cm². Find the width? 8cm 42cm² b) A cube has volume 125 cm³. Find the side of the cube.
ANGLES Calculate angle c c 132°	**CIRCLES/ PYTHAGORAS/MEASURES/ SPEED** a) Calculate the perimeter of this semi-circle. 16cm b) Calculate the length. ? cm 5cm 12cm
AVERAGES	**NEW CONTENT MISCELLANEOUS**

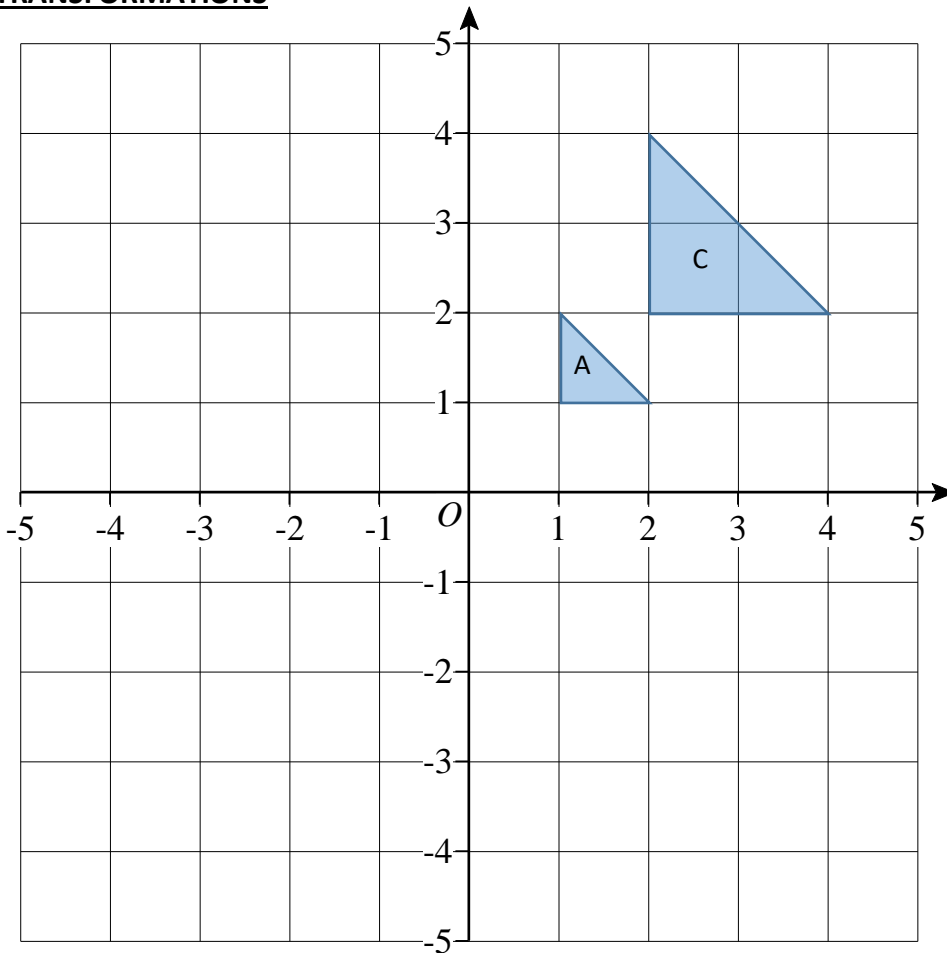| Height(cm)	Freq		
140<h≤150	16		
150<h≤160	38		
160<h≤170	19		
170<h≤180	7		

a) Estimate the mean height.

b) Why is it only an estimate?

a) A wage was increased by 12%. The new wage was £280. What was the wage before the increase?
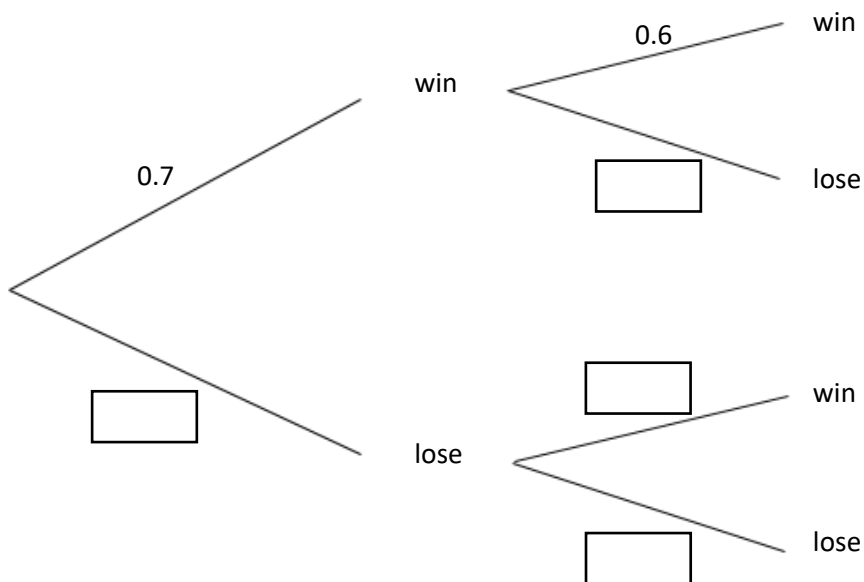
b) Compound interest is 3.5% each year. I have £4000. How much is in the account after 2 years?

TRANSFORMATIONS

a) Rotate A 90° clockwise to give shape B, centre (0, 0).

b) What single transformation is also the same from A to B?

c) Describe the single transformation to get from A to C.

d) Translate A in the vector $\begin{pmatrix} -4 \\ 2 \end{pmatrix}$. Label it D.

STATISTICAL DIAGRAMS/ PROBABILITY

The probability the school team win a football match is 0.7.
The probability the school team win a rugby match is 0.6.
   a) Complete the tree diagram. Fill in the missing boxes.
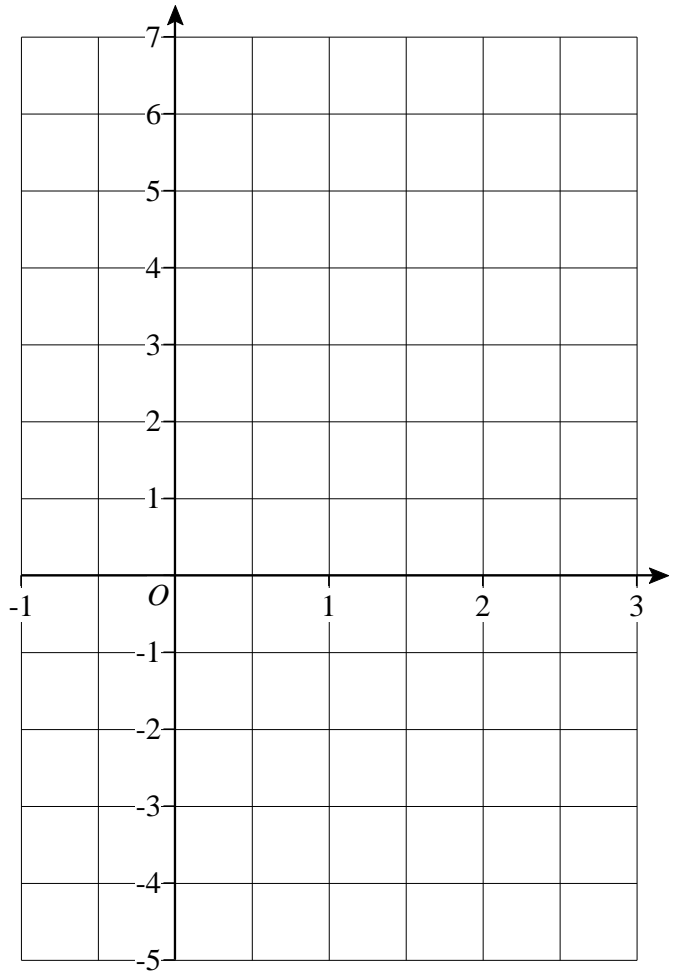   b) Work out the probability the school team wins one game only.

GRAPHS

a) Complete the table and draw the graph of $y = 4 - 3x$.

x	-1	0	1	2	3
y		4		-2	

b) Given the graph of $y = 2x + 5$, give the:

   i) Gradient

   ii) y-intercept

CONSTRUCTIONS

Shade the region closer to AB than BC and at least 4cm from D.