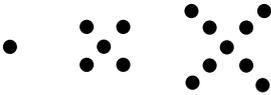


<p><u>PLACE VALUE, ROUNDING AND ESTIMATING</u></p> <p>a) Round 371.59823 to</p> <p>i) 2 decimal places.</p> <p>ii) 1 significant figure.</p> <p>b) Estimate 31.7×159.6</p>	<p><u>TYPES OF NUMBER</u></p> <p>Find the LCM and HCF of 24 and 40.</p>
<p><u>ARITHMETIC INCLUDING DECIMALS</u></p> <p>a) $6.38 + 17.9$</p> <p>b) $£18.48 \div 8$</p>	<p><u>NUMBER SQUARES</u></p> <p>a) Draw pattern number 4.</p>  <p>b) Calculate the nth term of the number of dots in the pattern above.</p> <p>c) Find the 20th term (how many dots)?</p>
<p><u>FRACTIONS</u></p> <p>Work out</p> $1\frac{2}{3} + 2\frac{4}{5}$	<p><u>PERCENTAGES</u></p> <p>a) In a sale a TV of price £450 was reduced by 16%. Calculate the sale price.</p> <p>b) Write 3.4% as a decimal.</p> <p>c) Write 92% as a fraction in its simplest form.</p>
<p><u>NEGATIVES/CALC/BIDMAS/INDICES</u></p> <p>a) Without a calculator work out.</p> $\frac{11^2}{5^3} \quad \frac{\sqrt{225}}{\text{cube root of } 8}$ <p>b) What is the reciprocal of 7?</p> <p>c) Work out $\frac{-15+-3}{-4--2}$</p>	<p><u>RATIO</u></p> <p>Fruit juice is made by orange, apple and lemon juice in the ratio 4:3:1. I have 2 litres of the fruit juice. How much of this is apple juice? Give your answers in millilitres.</p>

SIMPLIFY ALGEBRA/ SUBSTITUTION

a) Simplify $6a + 2a$
 $6a \times 2a$

b) If $a = 4$ and $b = 7$, work out the value of
 $6a + 8b$

ALGEBRA BRACKETS

a) Expand $3(5 + 2r)$

b) Factorise fully $4p^2 + 8p$

c) Expand $(x - 6)(x - 4)$

SOLVE EQUATIONS

Solve

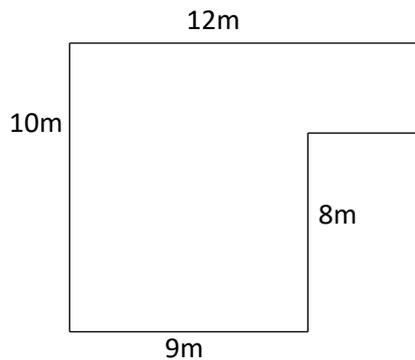
a) $a - 17 = 35$

b) $\frac{b}{4} = 12$

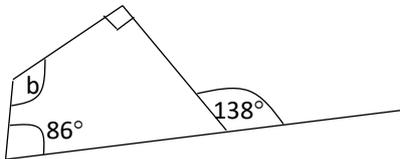
c) $6c - 1 = 4c + 8$

AREA/ PERIMETER/ VOLUME

Find the perimeter and area.

**ANGLES**

a) Calculate angle b .



b) Calculate the interior angle of a regular 9 sided polygon.

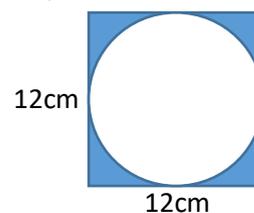
CIRCLES/ PYTHAGORAS/MEASURES/ SPEED

a) Complete these:

$1.35 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

$260 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

b) Calculate its shaded area to 1dp.

**AVERAGES**

7, 2, 9, 3, 6, 5, 6, 2, 2, 8

Find the:

a) Mode

b) Range

c) Median

d) Mean

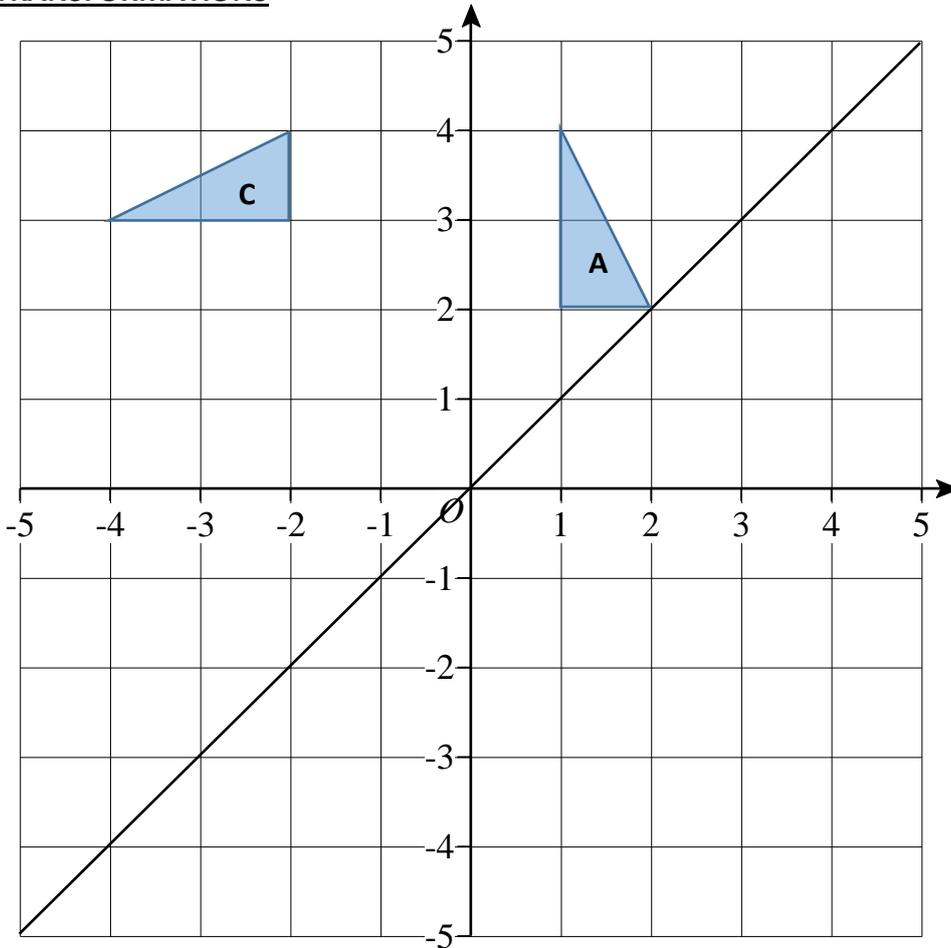
NEW CONTENT MISCELLANEOUS

3 apples and 2 bananas cost 94p

4 apples and 1 banana cost 97p

By solving simultaneous equations. Find the cost of one apple and one banana.

TRANSFORMATIONS



a) Reflect A in the line m. label it B.

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

c) Translate A $\begin{pmatrix} -3 \\ -6 \end{pmatrix}$. Label it D.

STATISTICAL DIAGRAMS/ PROBABILITY

a) Which way to school is the mode?

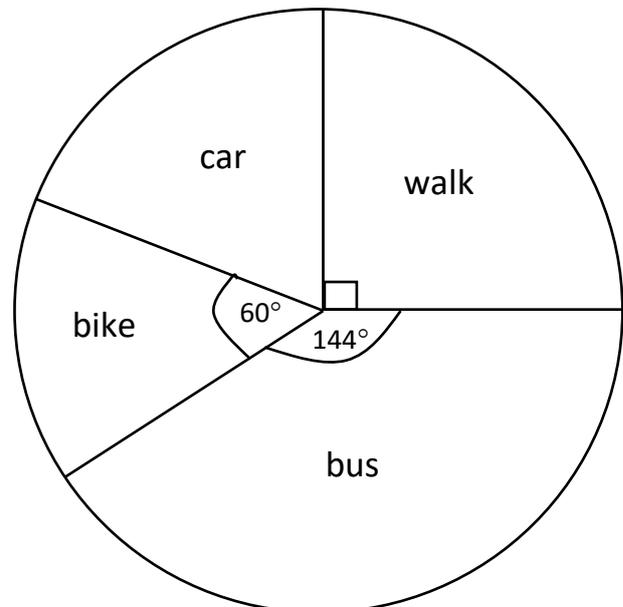
b) 240 students were asked altogether?
How many of these students chose to walk?

Why?

c) Calculate the angle for car.

d) How many students chose to travel by:
i) bike? ii) bus?

Pie Chart showing how to get to school

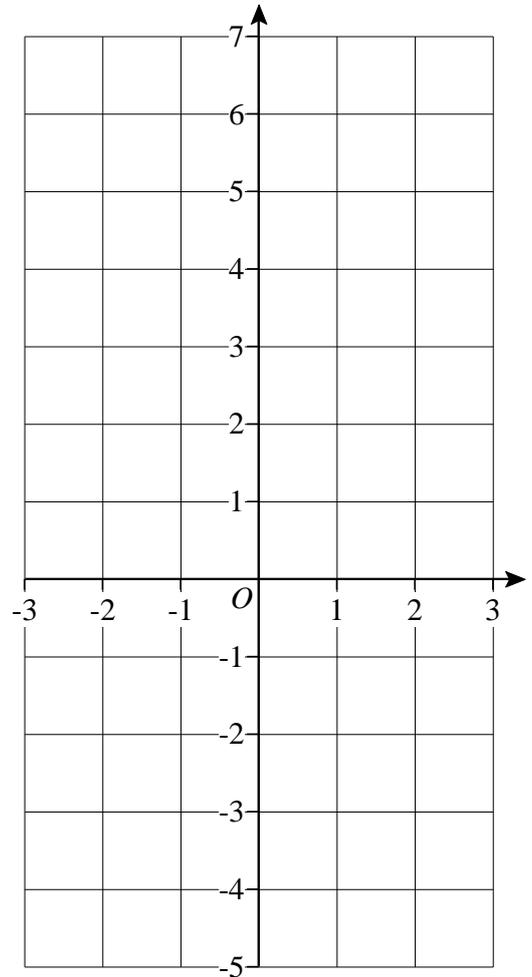


GRAPHS

- a) Draw the graph of $y = 2x + 1$ by completing the table below

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

- b) Find the value of x when $y = 4$.



CONSTRUCTIONS

Here is a garden ABCD
The scale is 1cm = 5m.

Grass is to be planted at least 20m from wall AD
and at least 30m from corner B.

Shade the region for the grass to be painted.

