

Final Countdown Revision Mat 5

1) Work out
 $2\frac{3}{4} + 3\frac{4}{9}$

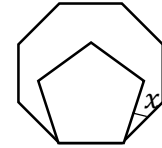
2) a) Express 0.000205 in standard form.
 b) Write 7.54×10^{-5} in ordinary form.
 c) Work out
 $(4 \times 10^8) \times (7 \times 10^{-4})$
 Express your answer in standard form.

3) a) Draw a cumulative frequency graph for the following information.
 b) Estimate a value for the median.
 c) How many people weigh more than 95kg?

Weight (Kg)	Frequency
$70 < w \leq 80$	15
$80 < w \leq 90$	34
$90 < w \leq 110$	26
$110 < w \leq 120$	5

4) Solve
 $x^2 + 11x + 24 = 0$

5) Find the Missing angle x . From these regular polygons.

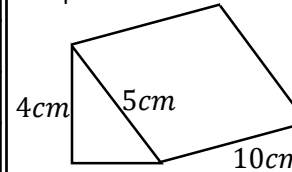


6) Expand and Simplify
 $5(x + 4) - 3(x - 2)$

7) Which company is cheaper for the price of a TV?

Wonder $\frac{1}{8}$ off £142	Zibidee 15% off £140
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8) Calculate the volume of the shape.



9) Express 0.77777 as a fraction.

10) 80 students went on a school trip. They went to London or Paris.
 23 boys and 19 girls went to London.
 14 boys went to Paris.
 What is the probability a child went to London?

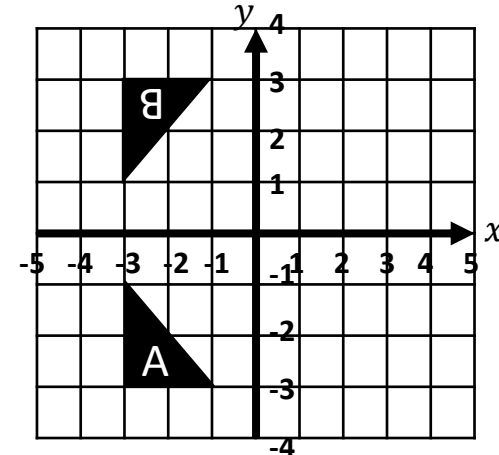
11) Expand and simplify
 $(x + 3)(x - 5)$

12) List two criticisms of the questionnaire.

How often do you go to the cinema?

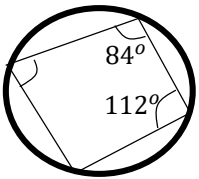
1-2
 2-3
 3-4

13) Describe the transformation of A to B.

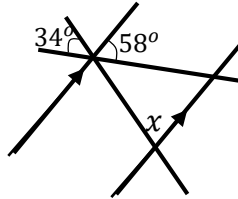


Enlarge B by a scale factor of 2 from a centre $(-4, 4)$ to make shape C.

14) Find angle x .



15) Calculate the size of angle x .



16) What is the equation of the line Parallel to $y = 3x + 2$ which passes through the point $(2, 18)$.

Challenge

M is a midpoint of the line \overline{OA} and N is a midpoint of the line \overline{OB} .

Show the length \overline{BM}

Show the length \overline{AB} .

