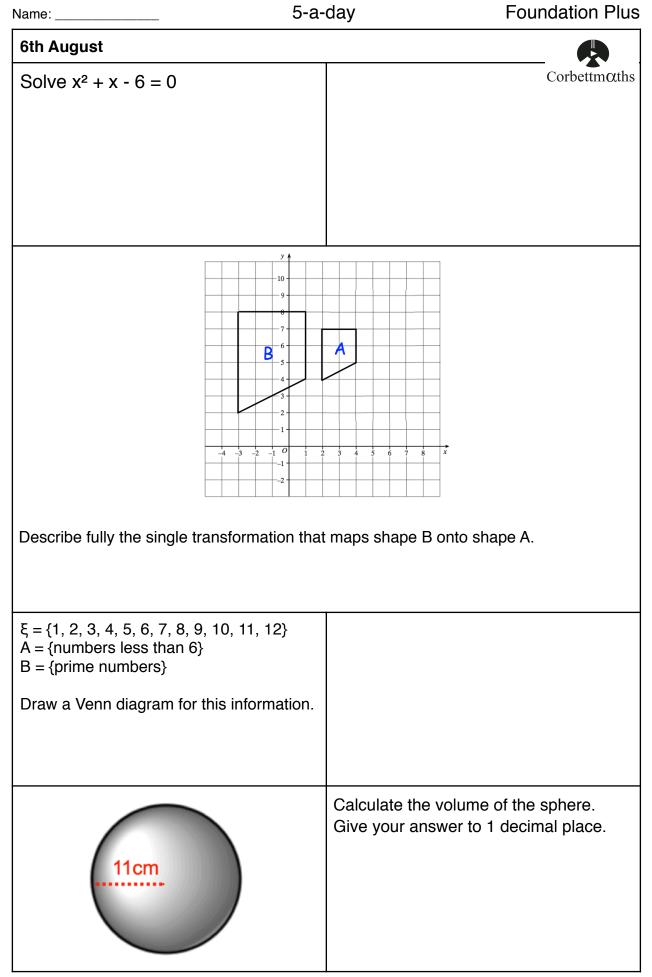


2nd August	
5cm	Corbettmαths Calculate the area of this quarter circle
The time, T, taken to serve the guests at a wedding is inversely proportional to the number of waiters, w.	Explain why.
The time is calculated by $T = \frac{300}{w}$ Work out how long it would serve the guests if there were 45 waiters.	
The density of Nitrogen is	
1.25 × 10 ⁻⁶ kg/cm ³ Calculate the mass of one cubic metre of Nitrogen.	
9cm 41cm Not drawn accurately 38cm	Is this triangle a right angled triangle?

3rd August	
Solve (x + 3)(x + 5) = 0	Corbettmaths
Mrs Reed buys a car costing £11760 This cost includes VAT at a rate of 20%.	
How much is the car without VAT?	
150 students visit a school canteen.	
Some students have packed lunches. Some students have a cooked lunch.	
56 out of the 89 students who have packed lunch are female. There are 72 boys.	
Work out how many females have a cooked lunch.	
9 cm	
Calculate the area of the sector	

4th August	
Solve $\frac{7x-3}{2} = 2x+9$	Corbettmaths
x 5.7cm 4.5cm	Find x.
Solve the simultaneous equations 2x - 5y = 1 8x + 3y = 27	
Find the volume of a piece of wood that has a mass of 600g and density of 0.75g/cm ³	
0.84 has been rounded to two decimal places. Write down an inequality to show the range of possible actual values.	

5th August	
Write in standard form	Write in standard form Corbettmoths
120 x 10 ⁸	0.00000000034
In the space below, draw a 80° angle.	
Construct the angle bisector.	
The circumference of a circle is	
60cm. Work out the area of the circle.	
work out the area of the circle.	
A rectangular field is 20 metres	Find the area of the field.
longer than wide.	
The perimeter of the field is 280m.	



7th August	
6 cm 12cm	Corbettm α ths Calculate the volume. Give your answer in terms of π
A light flashes every 50 seconds. A buzzer buzzes every 3 minutes. They both operate, how long until	
they both operate again?	
Calculate the density of a piece of wood with a mass of 80g and a volume of 90cm ³	
5.8m	A ladder is placed against a wall. To be safe, it must be inclined at between 70° and 80° to the ground. Is the ladder safe?
1.5m	
Calculate the length of the ladder.	

8th August	
Expand and simplify $6(w + 3) - 2(w - 5)$ 6w + 18 - 2w - 10 = $4w + 8$	Corbettmoths
Four chairs and two tables cost £218. Six chairs and seven tables cost £587.	Find the cost of buyings twenty chairs and five tables.
$ \begin{array}{c} $	Express in terms of a and b the vector
A cube with side length 8cm is placed on the ground. The pressure exerted on the ground is 4N/cm ² .	
What force does the cube exert on the ground?	
12cm	Calculate the surface area

9th August	
Calculate the perimeter of this quarter circle	Corbettmaths
The mean of four numbers is 10. Three of the numbers are 9, 11 and 7. Work out the fourth number.	
Input X $\frac{3}{4}$ Find the output if the input is 5	$\div \frac{2}{3} \longrightarrow \text{Output}$
Factorise x ² + 10x + 9	
Match each of the following	4x + yExpressionx + x + x = 3xEquation5x - 2 = 28FormulaV = lwhIdentity

	•
10th August	
The table shows the probabilities that a sweet taken from a jar will be red, pink or purple.	There are 4000 sweets Corbettmαths How many are purple?
Colour Red Pink Purple	
Probability 0.4 0.25	
Simplify $2a^3c^3 \times 3a^2c$	
y = x ³ Complete the table of values and draw a graph	
x -2 -1 0 1 2 y	
Solve 2x - 3y = 7 3x + 5y = 1	