

2nd January	
Write 50cm as a fraction of 2m Give your answer in its simplest form	Corbettmaths
6cm 2cm Four rectangles identical to the one above are arranged.	What is the perimeter?
Find the highest common factor of 30 and 18	
James has 5 cards, each with a number written on it.	Write down a possible set of numbers James could have.
The median is 5 The mode is 3 The range is 8 All numbers are odd.	
The ratio of boys to girls in year 7 is 2:3	
There are 40 boys in year 7, how many girls are there?	

3rd January		
Write down an algebraic expression for	3 less than p	Corbettmaths
p multiplied by m		
64cm		
\wedge	Find y	
Y d		
Simplify	Simplify	
$m^{0} \times m^{2}$	$\frac{m^{10}}{2}$	
	m ²	
Age Frequency	Work out the mean	
7 3		
8 5		
9 2		

4th January	
Write these numbers in order of size. Start with the smallest number.	Corbettmaths
$60\% \frac{1}{2} 0.3 \frac{3}{4} 0.4$	
Simplify 4x + 3y - 2x + 5y	
If £1 is \$1.50	Change \$4.50 into pounds.
Change £4 into dollars.	
Change £100 into dollars.	Change \$30 into pounds.
The diagram below shows a shape made with centimetre cubes.	On the centimetre square grid, draw the front elevation.

5th January	
Each member of a club is going to receive a badge. There are 140 members.	Corbettmaths
The badges are sold in packs of 9.	
Work out the least number of packs of badges that need to be bought.	
$\frac{2}{7} \times \frac{1}{3}$	$\frac{4}{7} \div \frac{4}{5}$
Work out	
12 ⁴	
20	The graph shows the distance (in miles) from home at each time.
$ \begin{array}{c} 16 \\ 12 \\ 8 \\ 4 \\ 0 \\ 10.00 \\ 11.00 \\ 12.00 \\ 13.00 \\ 14.00 \end{array} $	How far was Nicky from home at 11:30?
What happened between 12:00 and 13:00	Work out the speed between 10:00 and 12:00

6th January	
	Corbettmaths
Molly visits a restaurant.She chooses one starter and one main.StartersMainsSoupChickenPrawn CocktailBeefMelonPizza	List all the possible outcomes.
Here are 10 scores 1 4 4 2 3 4 5 1 4 1 Find the mode	Find the median
Y 80° 75°	Shown is a kite Calculate the size of angle y.
Expand	Factorise
y(3y + 2)	x² - 5x

7th January	
WinsDrawsLossesSunderland City153Manchester Rovers216Liverpool United306London Town090Win = 3 pointsDraw = 1 pointLoss = 0 points	Corbettmaths Which team has the least number of points? How many points do they have?
Work out 5.18 ÷ 7	Work out 0.8 x 1.2
Mrs Jenkins is a chicken farmer. Her chicken pen is 18m long and 8m wide. Each chicken requires at least 3m ² .	What is the maximum number of chickens Mrs Jenkins can keep?
Solve 2(4x - 1) = 18	
Work out the area of the circle. State the units for your answer. Give your answer to 2 decimal place.	5cm

8th January	
Write 0.4 as a fraction	Corbettmαths
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ABCD is a parallelogram. Complete the parallelogram and write down the coordinates of D. (
Increase 40 miles by 43%	
4cm 12cm 5cm 5cm	
The probability of winning a game is 0.3. Jayne plays the game 200 times.	How many times should she lose the game?

9th January	
124 120 116 112	What is the tenth term? Corbettmaths
What are the next two terms?	
Solve 3y + 4 = 22	
Mary has £400 She gives 10% to her sister. She gives two fifths to her mum. How much does she have left?	
Not drawn accurately 5cm 10cm	Calculate the area of the triangle.
Write 36 as a product of primes. Give your answer in index form.	

10th January	
Write 40% as a fraction	Write 15% as a fraction Corbettmαths
A car travels 100 miles in 4 hours.	
What is its average speed?	
x y	Work out the size of angle x.
640	Work out the size of angle y.
The diagram above shows a parallelogram.	
Calculate the nth term 6, 11, 16, 21, 26,	Using the nth term, calculate the 100th term in the sequence
Here are 4 expressions.	
$gh g + h g - h g^2 + h^2$	
If $g = 10$ and $h = -2$ arrange the expressions in order, smallest to largest.	

11th January	
Shown is information about the number of phone calls received.	Corbettmaths Show this information on a pictogram
Student Frequency	
Patrick 12	Patrick
Andrew 20	
David 6	Andrew
George 9	David
What is the range of the number of phone calls received?	George Key:
$\frac{3}{4} + \frac{5}{7}$	
Simplify	Simplify
m ⁶ x m ²	m ⁶ ÷ m ²
Calculate the circumference of this circle. Give your answer to 2 decimal places	

12th January	
A ten sided dice, numbered 1 to 10 is rolled.	Corbettmaths What is the probability of a number less than 4?
What is the probability of a 3?	
	What is the probability of a square number?
Work out $3a + 2c$ when $a = 4$ and $c = -2$	
Max thinks of a number.	What was the number he thought of?
He squares it.	
Then he adds 4.	
His answer is 53.	
Draw a radius on the circle.	Draw a chord on the circle.
\frown	\frown
Factorise	Factorise
3y + 15	$a^2 + 3a$
·	u vu



Name: _____

14th January	
Write $\frac{21}{5}$ as a mixed number.	Write $1\frac{2}{3}$ Corbettmaths as a top heavy fraction.
Jonah wants to draw a pie chart Sunderland City 6 Manchester Rovers 7 Liverpool United 13 London Town 10	Calculate the size of each angle.
Mr James gives £500 to his children Ally, Barry and Cat in the ratio 2:3:5. How much do they each receive?	
A school has 80 teachers. 44 of the teachers are female 11 of the male teachers went on holiday 20 of the female teachers did not go on holiday. Complete the frequency tree	male did not go on holiday female did not go on holiday

15th January	
When $x = 5$ and $y = -7$	Corbettmaths
Find the value of 5xy	
£1 = \$1.5 dollars	Convert \$450 into pounds
Convert £20 into dollars	
Adults £4 each Children £3 each	Give a possible number of adults and children.
A group of adults and children goes to the fair.	
The total cost is £32	
108° Diagram not drawn accurately	Work out the size of the angle x.
h	
2400 men and 600 women attend a rugby match.	
30% of the people support Bath 1/4 of the men support Bath.	
What percentage of the women support Bath?	



17th January	
The diagram shows a fair spinner.	Corbettmaths Mark the scale with an arrow to show the probability of landing on yellow.
Alison has £1.40 Scott has £2.90 How much should Scott give Alison so that they will have the same amount of money?	
Here are the first five terms in a number sequence. 7 10 13 16 19	Write an expression, in terms of <i>n</i> , for the <i>n</i> th term of this number sequence.
Fiona is playing a game.	How many points does Fiona score?
Each hit is worth 5 points. Each miss is worth –3 points. Fiona hits the target with 5 of the balls and misses with the rest.	Chris also throws 8 balls at the target. His final score is 0. How many times does he hit the target?

18th January			
Complete the table			Corbettmaths
	Fraction	Decimal	Percentage
	$\frac{7}{100}$	0.07	
		0.35	35%
	<u>3</u> 5		60%
Shade one more square to make a pattern with rotational symmetry order 2.			
Job duration (hours) 1 2 3 3 5 6 6 Charge (£) 60 80 104 116 128 140 160	200 180 160 140 (£) 100 80 60		
Describe the correlation		1 2 3 4 5 (5 7 8 9
		Ja	d auration (nours)
Calculate the volume of this cylinder			

19th January	
6 x -4	-7 x -4 Corbettmaths
From the list of numbers	write down the cube root of 27.
3 6 8 14 16 28 41 64 write down the cube numbers	
Find the subject of the formula $y = 3w - a$	Reflect triangle A in the x-axis.

20th January			
Work out the mean:	Corbettmaths		
5935			
Sophie buys a caravan for £8000			
She pays a deposit of £3000 and then pays the rest over 20 equal monthly payments.			
How much is each monthly payment?			
Martin is x years old. Jennifer is 3 years younger than Martin	Connor is twice as old as Martin.		
Write an expression for Jennifer's age.	Write an expression for Martin's age.		
Increase £60 by 30%	<i>y</i> 6 		
Reflect triangle A in the y-axis			

21st January			
The contents of each box can be found by adding the two boxes directly beneath it.	2x x	3x	Corbettmαths
Share £1200 in the ratio 2:3			
Complete the table	Rectangle Square Kite Rhombus	Exactly 1 line of symmetry X	Rotational symmetry of order 2
Barry earns £1300 a month. He spends 30% of this money on rent and 12% on bills. How much of the £1300 has he left?			
5cm 4cm 12cm	Calculate th	ne area of this pa	rallelogram.

22nd January	
	Corbettmαths Find a shape that is mathematically similar to B
Express 20p as a fraction of £5	Write 0.065 as a fraction
There are only blue and red sweets in a bag. The ratio of blue sweets to red sweets is 5:3 What fraction of the sweets are red?	
Fiona drives for 4 hours. Her average speed is 25.5 mph. How far does Fiona drive?	Not to scale Tile 3m Wall 50cm 6m
Mollie is tiling her bathroom wall. The wall is 6m by 3m. Each square tile is 50cm by 50cm. Each tile cost £4. Calculate the cost of tiling the wall.	

23rd January	
Work out 0.3 x 0.7	Corbettmaths
2.5km Town Beach 750m	Work out the distance between the town and the beach. State your units.
The same type of dinner plate is sold in two different packs.Small pack Contents 3 platesLarge pack Contents 12 plates£5.25£21.24	Which is better value for money?
Share \$40 in the ratio 2:3	
Factorise 15y + 20	

24th January	
Simplify a + a + a	Simplify 4ac + 5ac Corbettmouths
Shade 3 more triangles to make a pattern with rotational symmetry order 3.	
A theatre has 52 rows of seats. Each row has 19 seats. Tickets cost £9.75 each. All tickets are sold for a show. Estimate how much money is raised.	
x 160° 115°	Work out x.
Write an expression, in terms of y, for the perimeter of the rectangle. y + 3 y	

25th Janua	ry		
Max earns	£220 per w	eek.	Corbettmaths
He is given an increase of 10%.		e of 10%.	
What is his	s new salary	?	
	French	German	There are twice as many boys studying French than girls.
Male	14		The total number of students is 50.
Female		8	Find the missing numbers.
lf 15 x 34 =	510		30 x 34
Use that info	ormation to wo	ork out:	
150 x 34			1 5 x 34
			Draw the front elevation.
Fron	t		
Simplify 7w - 2w			Simplify 7h + 5k + h - 3k

26th January	
Solve $\frac{x}{2} - 3 = 7$	Corbettmαths
3cm 9cm Work out the volume of the cuboid.	
C D	Calculate the actual distance from C to D
The weight of a 2p coin is 7g. Find the weight of £8 worth of 2p coins. Give your answer in kilograms.	
Above are 3 straight lines.	Find the size of angle y.

27th January				
2 4 3 4 8 1 14 What is the median?	What is the mode?	Corbettmaths		
Anna has a mobile phone. Text messages cost 3p each. Calls cost 5p per minute. She also has to pay £10 each month.	In September, Anna: - made 100 minutes of calls - sent 70 text messages.			
In the grid, each row adds up to the number to the right. Find the values of w, x, y and z.	w w w w w w x x w x x y w x y z	20 24 25 30		
3.8cm 3.9cm 3.8cm	Write down the type of triangle shown. Work out the perimeter of the triangle.			
White Red 120° Black	The pie chart shows the colours of counters in a bag. There are 48 counters in total. How many are red?			

28th January	
2 × = -16	Corbettmaths
x -7 = 42	
Foxtown52Sandcliff7032Red Island311428DonhamptonThe table shows the distances in miles by road between some towns.	Which two towns are the furthest apart?
Solve x + 5 = 7	Solve 2w - 1 = 13
A red light flashes every 4 seconds.	How long until they both flash again at the same time?
A blue light flashes every 9 seconds.	
They have both just flashed at the same time.	
Multiply out x(x + 3)	Expand 3(2y - 1)

29th January	
Three identical gold bars are placed on a set of scales. Work out the weight of one bar of gold. Include units.	Corbettmaths
$\frac{3}{4} + \frac{1}{12}$	$\frac{3}{5} - \frac{2}{7}$
20cm	Work out the area of the circle.
Expand 4(y + 2)	Expand y(y + 8)

30th January							
Write these fractions in order of size. Start with the smallest number.						Corbettmaths	
$\frac{7}{10}$ $\frac{3}{4}$	$\frac{1}{2}$ $\frac{3}{5}$						
Simplify W ⁷ X W ⁴				Simp W ⁷	olify ÷W ⁴		
		French	Ge	rman	Spanish	Total	
	Female				7		
	Male	5		2			
	Total	14		9		40	
The pattern be triangular numl	low show th bers.	e first 3		Write	down the f	irst 5 triang	ular numbers.
Work out (-2) ³							

31st January	
There are 24 students in Michael's class.	Corbettmaths How many students travel by bus?
A third of the class cycle to school. Three eighths of the class walk . The rest of the class travel by bus .	
Write 94 out of 200 as a percentage.	
Pattern 1 Pattern 2 Pattern 3	How many dots will there be in Pattern 6?
Mia has five numbered cards. One of these cards is chosen at random. Mia says:	Fill in three numbers that could be on Mia's cards
The probability of an odd number is 3/5 The probability of a 7 is 2/5 The range of the numbers is 10 The probability of a 2 is 0.	7 5
Work out 130% of 600	Work out 225% of 40