1\*. The chocolate made to produce an 2. Sarah eats twice as many Easter eggs as Easter egg contains 35% fat. My egg Dennis who eats one less than his brother weighs 250g so if I eat the whole egg will I Dan. Dan eats x Easter eggs.



go over my recommended daily Express the amount Sarah eats as an allowance of 80g algebraic expression. fat?

3\*. Crème eggs are available with different special offers. Which offer below shows the best value for money? **You must show your working.** 



A single crème egg costs 59p A pack of 3 costs £1.29 A pack of 12 costs £4.89 4. Michelle arranges 6 Easter eggs (see below). Draw one possible plan view of

these eggs.





Calculate the cost of one Crème egg and one Malteaser bunny. **You must show your working**  6. Barney the rabbit escaped his hutch and ended up trapped on the roof. The

8. This is the world's largest Easter egg weighing an



ladder the firefighters used was 8.5 metres long when placed 2 metres from the wall. Calculate the height Barney reached on the roof.

7. Below is the amount of Easter eggs eaten by members of staff in the Maths department Egg-a-thon.

11, 14, 15, 16, 19, 21, 24, 27, 30

Calculate the interquartile range Draw a box plot of your results.



impressive 1950kg. The time taken (t) is inversely proportional to the number of workers (w). It took 26 workers 525 hours to make the egg. Set up an equation in terms of w and t.

take 100 workers to produce the same egg.

9*. The ingredients for Crème Egg brownies (makes 12):	10.
<ul> <li>185g unsalted butter</li> <li>185g best dark chocolate</li> <li>85g plain flour</li> <li>40g cocoa powder</li> <li>3 large eggs</li> <li>275g golden caster sugar</li> <li>6 Cadbury's Crème eggs cut in half</li> <li>I want to make 30 brownies. I have 200g of flour,</li> <li>120g of cocoa and plenty of the other ingredients.</li> </ul>	Albert 12m 80° Boris 20m Charles 3 lambs are in a field (Albert, Boris and Charles). Calculate the distance between Albert and Charles to <b>3 significant</b> <b>figures.</b>
Do I have enough ingredients? 11. CHALLENGE:	12.
There are 4 Malteaser, 5 Rolo and 6 Mini Egg Easter eggs in my cupboard. What is the probability that I choose 3 Malteaser eggs?	volume of 1500cm <sup>3</sup> .

## 13.



Albert the genius rabbit wants you to write the following recurring decimal as a fraction. He said it only

took him 1.2 seconds:

0.473

14. This U-shaped slide can be modelled by the quadratic  $x^2 + 6x + 10$ .



Write your answer in the form (x + a) - bAnd hence find the minimum point of the slide.

16\*. Blake the rabbit has a ramp with

KS4: Y9 – 400 pupils Y10 – 455 pupils Y11 – 445 pupils.



They want to calculate a stratified sample of 50 pupils to help choose a school pet.

15. A school has the following pupils in



equation 2y + x = 7. His friend at the pet shop has a ramp with equation y = 12 - 0.5x.

Will the rabbits ever meet?