



Maths

Year 3 and 4 Summer Maths Challenge

Complete all the sections of the challenge to solve the mystery of the super snack!

When you have finished put the following on a piece of paper and hand this in to Ms Debs at the beginning of September.

Name:

Class:

Name of the super snack:

The Mystery of the Super Snack

Rosie and Toby have been busy in their lab researching the best snack to eat before their class quiz night to ensure they are at their very best to tackle the quiz questions. After weeks of testing, they thought they had found the perfect snack.

Unfortunately, members of a rival quiz team have stolen their work! The sneaky suspects have left a series of clues for Toby and Rosie to solve if they are to get their results back before the quiz night!

Can you help Toby and Rosie solve the problems and find the clues to rediscover the super snack in time for the quiz?



The Mystery of the Super Snack

Snack	Fruit or Vegetable?	Fibre Content	Good Source of Vitamin C?	Calories per 100g
Amazing Apple Bites	fruit	high	no	52
BBQ Beetroot Balls	vegetable	high	no	43
Crazy Celery Chunks	vegetable	high	no	16
Delicious Date Diamonds	fruit	high	no	282
Fabulous Fig Fingers	fruit	high	no	107
Giant Green Gherkins	vegetable	low	no	11
Happy Honeyed Parsnip Hoops	vegetable	high	yes	75
Iced Kiwi Ingots	fruit	high	yes	61
Jellied Juniper Drops	fruit	low	yes	5
Luscious Lemon Loops	fruit	high	yes	29
Marvellous Melon Mice	fruit	low	yes	36
Popping Pea Pods	vegetable	high	yes	81
Super Satsuma Slices	fruit	low	yes	53
Tasty Turnip Salsa	vegetable	low	yes	28
Vanishing Veg Mix	vegetable	low	no	51
Wonderful White Grape Wheels	fruit	low	no	67

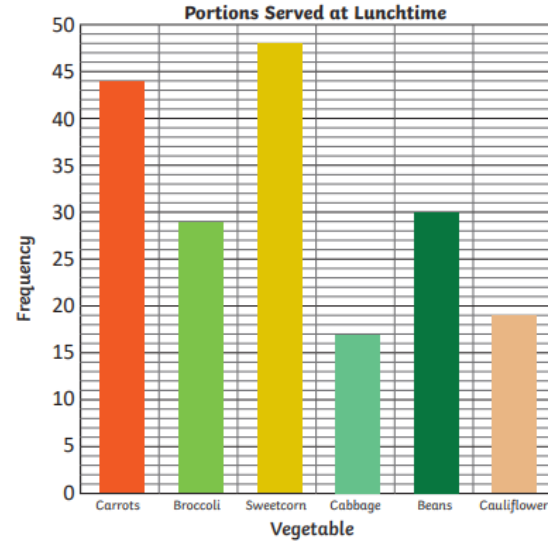
Be Ambitious

The Mystery of the Super Snack

Clue 1

Answer the questions about the bar chart and colour in the boxes with the correct answers.
Use the words to work out the next clue.

A Bar Chart to Show the Number of Vegetable



74 a	11 not	55 isn't	13 is
44 the	45 vegetable	10 snack	65 fruit

How many portions of carrots were served?

How many more portions of broccoli were served than cauliflower?

How many fewer portions of cabbage were served than beans?

How many portions of carrots and beans were served altogether?

How many portions of sweetcorn and cabbage were served altogether?



Clue 1: _____

The Mystery of the Super Snack

Clue 2

Check these maths calculations. If a calculation is right, put a tick. If it is wrong, put a cross. Count up the number of ticks and crosses.

If there are more ticks than crosses, the snack is high in fibre.

If there are more crosses than ticks, the snack is low in fibre.

	Right ✓	Wrong ✗
$306 + 59 < 309 + 56$		
$96 \times 10 = 960$		
$231 \times 4 = 824$		
$\frac{1}{2}$ of 72 is 36		
$618 - 54 = 544$		
$£12.40 \div 4 = £4.10$		
$7 \times 5 \times 2 = 70$		
$\frac{2}{3}$ of 21 is 14		
$12 \times 8 = 32 \times 3$		
Total		

Clue 2: _____



The Mystery of the Super Snack

Clue 3

How many of these fractions are equal to 0.5?

$\frac{1}{2}$	$\frac{2}{4}$	$\frac{5}{10}$	$\frac{3}{4}$	$\frac{4}{8}$	$\frac{55}{90}$
$\frac{5}{11}$	$\frac{5}{8}$	$\frac{7}{14}$	$\frac{7}{12}$	$\frac{60}{100}$	$\frac{18}{38}$
$\frac{25}{44}$	$\frac{52}{100}$	$\frac{9}{18}$	$\frac{12}{24}$	$\frac{50}{100}$	$\frac{36}{72}$
$\frac{22}{44}$	$\frac{19}{36}$	$\frac{30}{50}$	$\frac{16}{30}$	$\frac{25}{40}$	$\frac{45}{90}$
$\frac{30}{60}$	$\frac{28}{56}$	$\frac{100}{200}$	$\frac{19}{38}$	$\frac{11}{22}$	$\frac{15}{30}$
$\frac{35}{70}$	$\frac{16}{30}$	$\frac{12}{25}$	$\frac{30}{56}$	$\frac{40}{90}$	$\frac{200}{500}$

Number of Fractions equal to 0.5	Clue
< 15	The snack is a good source of vitamin C.
> 15	The snack is not a good source of vitamin C.

Clue 3: _____



The Mystery of the Super Snack

Clue 4

Sort the numbers into the correct box. Some numbers will belong in more than one box.

The box with the most numbers will give you a clue about the calorie content in a 100g portion of the super snack.

1 4 5 8 10 15
20 40 55 80 100

Even numbers	Multiples of 5	Factors of 40
Less than 100 calories per 100g	Between 100 to 200 calories per 100g	More than 200 calories per 100g

Clue 4: _____

The super snack is: _____

