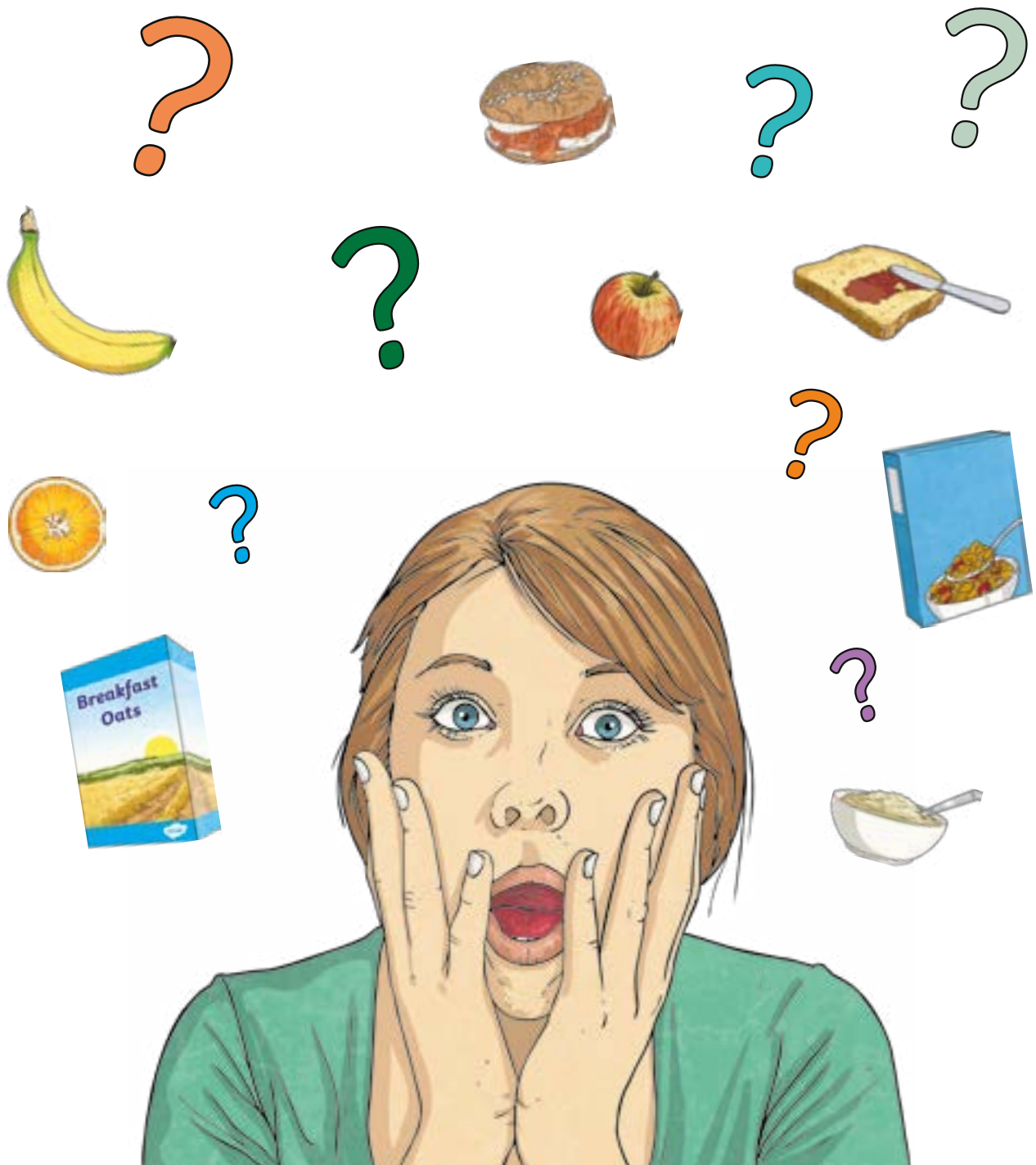


# The Mystery of the Brilliant Breakfast

Amelia and Osman have been busy in their lab researching the best breakfast to eat at the beginning of each day. After weeks of testing, they thought they had found the perfect breakfast.

Unfortunately, members of a rival science team have stolen their work! The sneaky suspects have left a series of clues for Osman and Amelia to solve in order to get their results back!

Can you help Amelia and Osman solve the problems and find the clues to discover the brilliant breakfast?



# The Mystery of the Brilliant Breakfast

Breakfast	Packaging	Fibre Content	Sugar Content	Serving Weight or Capacity
Cornflakes	Box	Medium	Medium	30g
Orange Juice	Carton	Low	High	122ml
Rice Snaps	Box	Medium	Medium	30g
Milk	Bottle	Low	Medium	125ml
Chocolate Rice Snaps	Box	Low	High	30g
Toast	Bag	Medium	Low	80g
Banana	Bag	High	Medium	120g
Honey Cornflakes	Box	Medium	High	30g
Peanut Butter	Jar	Medium	Low	15g
Frosted Flakes	Box	Medium	High	30g
Jam	Jar	Low	High	15g
Bran Flakes	Box	High	Medium	30g
Chocolate Spread	Jar	Low	High	15g
Porridge Oats	Box	High	Low	30g
Blueberries	Carton	Medium	Medium	75g
Muesli	Box	Medium	Medium	30g
Apple	Bag	Medium	Medium	55g



# The Mystery of the Brilliant Breakfast

## Clue 1

Check these maths calculations. If a calculation is right, put a tick. If it is wrong, put a cross.

Count the number of ticks and crosses.

If there are more ticks than crosses, the snack isn't low in fibre.

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

	Right	Wrong
$3 + (12 \times 6) = 90$		
35% of 28 = 9.8		
$926 \times 14 = 12\ 864$		
$\frac{3}{4}$ of 140 is 105		
$9107 - 5432 = 3635$		
$\pounds 29.40 \div 5 = \pounds 5.83$		
$0.7 \times 5 = 3.5$		
$\frac{9}{10}$ of 21 = 18.9	.	
$11 \times 11 = 250 - 129$		
<b>Total</b>		



Clue 1: \_\_\_\_\_

# The Mystery of the Brilliant Breakfast

## Clue 2

Identify how many of these fractions, percentages and calculations are equivalent to 0.6 to discover a clue about the serving weight of the brilliant breakfast.

$\frac{3}{5}$	$\frac{24}{40}$	60%	$\frac{1}{5} \times 4$	$\frac{9}{15}$	$\frac{35}{60}$
$\frac{5}{11}$	$\frac{6}{8}$	$0.06 \times 100$	$\frac{2}{12}$	$\frac{50}{100}$	$\frac{45}{75}$
$\frac{30}{50}$	$\frac{55}{100}$	$\frac{42}{70}$	$\frac{12}{20}$	$\frac{1}{5} \times 3$	$\frac{200}{500}$
$0.006 \times 10$	$\frac{21}{33}$	$\frac{30}{40}$	$\frac{1}{10} \times 6$	$\frac{25}{40}$	$\frac{54}{90}$
30%	$0.06 \times 10$	$\frac{120}{200}$	$\frac{12}{30}$	$\frac{48}{80}$	$\frac{18}{30}$
$\frac{36}{60}$	$\frac{16}{30}$	$\frac{15}{25}$	$\frac{30}{60}$	$\frac{50}{90}$	$\frac{18}{3}$

Equivalent to 0.6	Clue
< 15	The breakfast has a serving weight of 50g or more.
> 15	The breakfast has a serving weight of less than 50g.

Clue 2: \_\_\_\_\_

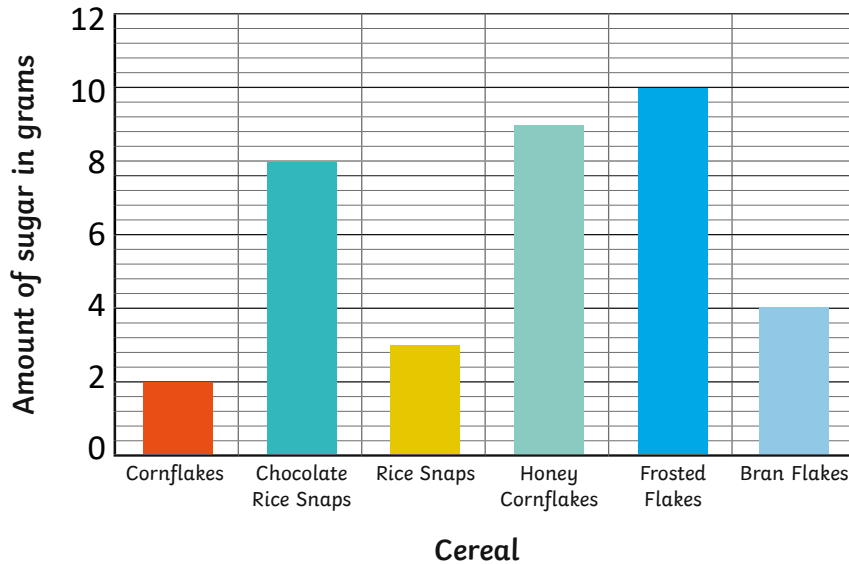
# The Mystery of the Brilliant Breakfast

## Clue 3

Answer the questions about the bar chart and colour in the boxes with the correct answers.

Use the words in the boxes to work out the next clue.

**A Bar Chart to Show the Amount of Sugar in a 30g Serving of Cereal**



<del>9g</del> a	<del>5g</del> packaging	<del>8g</del> breakfast	<del>7g</del> is
<del>2g</del> the	<del>30g</del> bar	<del>20g</del> box	<del>40g</del> drink

1. How many grams of sugar are there in a serving of chocolate rice snaps?
2. How many grams of sugar are there in a serving of cornflakes?
3. How many more grams of sugar is there in a serving of honey cornflakes than bran flakes?
4. How many grams of sugar is there in a 60g serving of frosted flakes?
5. How many fewer grams of sugar is there in a serving of rice snaps than frosted flakes?
6. How many grams of sugar is there in a 90g serving of rice snaps?

**Clue 3:** \_\_\_\_\_

# The Mystery of the Brilliant Breakfast

## Clue 4

Sort the numbers into the correct boxes. Some numbers will belong in more than one box. The box with the most numbers will give you a clue about the breakfast's content.

1

2

3

8

9

11

16

17

27

36

43

59

64

Square Numbers	Cube Numbers	Prime numbers
Medium amount of sugar	Medium amount of fibre	High amount of fibre



**Clue 4:** The breakfast has a \_\_\_\_\_.

# The Mystery of the Brilliant Breakfast

## Clue 5

Solve the maths calculations to crack the code and solve the final clue.

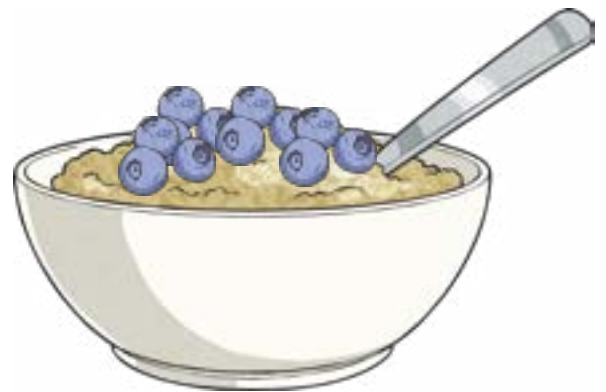
a	b	c	d	e	f	g	h	i	j	k	l	m
26	25	24	23	22	21	20	19	18	17	16	15	14

n	o	p	q	r	s	t	u	v	w	x	y	z
13	12	11	10	9	8	7	6	5	4	3	2	1

	Answer	Letter
$0.8 \times 10$		
$\frac{1}{12}$ of 72		
$200 \div 10$		
$0.026 \times 1000$		
$\frac{1}{3}$ of 27		

	Answer	Letter
$\frac{1}{2}$ of 30		
$120 \div 10$		
$\frac{1}{5}$ of 20		

	Answer	Letter
$\frac{1}{3}$ of 54		
$8000 \div 1000$		



Clue 5: \_\_\_\_\_.

The brilliant breakfast is: \_\_\_\_\_.