

# The Mystery of the Brilliant Breakfast

## Answers

### Clue 1

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 ✗
$3 + (12 \times 6) = 90$		✗
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>	<b>5</b>	<b>4</b>

Clue 1: **The snack isn't low in fibre.**

### Clue 2

How many of these fractions are equivalent to 0.6?

$\frac{3}{5}$	$\frac{24}{40}$	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%	$0.06 \times 10$	$\frac{120}{200}$	$\frac{12}{30}$	$\frac{48}{80}$	$\frac{18}{30}$
$\frac{36}{60}$	$\frac{16}{30}$	$\frac{15}{25}$	$\frac{30}{60}$	$\frac{50}{90}$	$\frac{18}{3}$

Clue 2: **The breakfast has a serving weight of less than 50g.**

## Clue 3

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.

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

Clue 3: **The breakfast packaging is a box.**

1. How many grams of sugar are there in a serving of chocolate rice snaps? **8g**
2. How many grams of sugar are there in a serving of cornflakes? **2g**
3. How many more grams of sugar is there in a serving of honey cornflakes than bran flakes? **5g**
4. How many grams of sugar is there in a 60g serving of frosted flakes? **20g**
5. How many fewer grams of sugar is there in a serving of rice snaps than frosted flakes? **7g**
6. How many grams of sugar is there in a 90g serving of rice snaps? **9g**

## 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.

Square Numbers	Cube Numbers	Prime numbers
<b>1, 9, 16, 36, 64</b>	<b>1, 8, 27, 64</b>	<b>2, 3, 11, 17, 43, 59</b>
Medium amount of sugar	Medium amount of fibre	High amount of fibre

Clue 4: The breakfast has a **high amount of fibre.**

**Clue 5**

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

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

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

	Answer	Letter
$0.8 \times 10$	<b>8</b>	<b>s</b>
$\frac{1}{12}$ of 72	<b>6</b>	<b>u</b>
$200 \div 10$	<b>20</b>	<b>g</b>
$0.026 \times 1000$	<b>26</b>	<b>a</b>
$\frac{1}{3}$ of 27	<b>9</b>	<b>r</b>

	Answer	Letter
$\frac{1}{12}$ of 30	<b>15</b>	<b>l</b>
$120 \div 10$	<b>12</b>	<b>o</b>
$\frac{1}{5}$ of 20	<b>4</b>	<b>w</b>

	Answer	Letter
$\frac{1}{3}$ of 54	<b>18</b>	<b>i</b>
$8000 \div 1000$	<b>8</b>	<b>s</b>

Clue 5: **The breakfast is low in sugar.**

The brilliant breakfast is: **Porridge Oats**