

# Friday 19th June

Hello Year 6,

We can't believe that its already the middle of June!

As you probably are aware, things are starting to change at Howley Grange as some children are coming back to school. There are many of you who are still learning at home though, and we just want you to know that we miss you and hopefully will be able to see you at some point soon. In the meantime, keep working hard with the home-learning and know that we are thinking of you.

Here are the activities for this week for you to follow and complete. If you have some spare time or want to do some extra learning, you could visit <https://www.bbc.co.uk/bitesize> or <https://www.thenational.academy/online-classroom> where there are lots of lessons and activities to choose from.

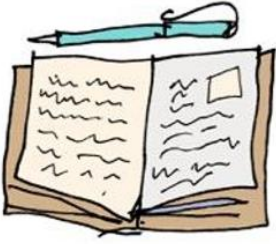
As always, try to read for at least 20 minutes a day and take Accelerated Reader quizzes from home by using this link [Howley Grange Renaissance at home](#) and logging on as usual using your username and password. To check that the book you are reading has a quiz, you can check it using on [Accelerated Reader Bookfinder](#).

Remember to take time to relax, exercise and be kind to yourselves and each other.

Take care and keep smiling,

Mrs Graham and Mrs North

## English Activity 4 - Ready to write



Are you ready to present your research and write your information text? Then write it, read it and check it! See you at the end!

Continue writing your information text about your own creature from yesterday.

Remember, there is a copy of the information text written by Ted Splorer that we used last week to use. Read this through before you continue to write as there are lots of ideas for language and sentence structures that you can use.

You also have your picture, your planning sheet and all of the work we have completed in this unit about sentence starters and building cohesion in your writing to help you.

Your information text about your new animal should be completed today. Remember to include a wide variety of Year 6 punctuation and make fantastic vocabulary choices to tell the reader all about your creature.

Once you have completed your writing, you need to edit and improve it. We attached a writing mat to yesterday's pack to help you to do this. Read your work through very carefully to find opportunities to make it even better than it already is!

When you have finished checking, editing and improving your information text, share it with a grown up at home. We are sure they will be amazed at this new creature roaming the earth!

## Maths Activity 5a - Ten in ten

1.  $1097 - 100 =$
2.  $146 \times 2 =$
3.  $7.1 + 1.6 =$
4.  $3 \times 6 \times 4 =$
5.  $\frac{3}{6} + \frac{1}{6} =$
6.  $420 \div 6 =$
7.  $12.8 \times 10 =$
8. 30% of 1,200 =
9.  $1.23 \times 5 =$
10.  $32 \times 60 =$

### Challenge

11.  $\frac{4}{5} \times \frac{5}{6} =$
12.  $8 + 96 \div 2 =$
13.  $\frac{2}{3} \div 4 =$
14.  $4928 \div 14 =$
15.  $12.6 - 7.77 =$

## Maths Activity - Maths Mystery

Today you have a Maths Mystery to solve.

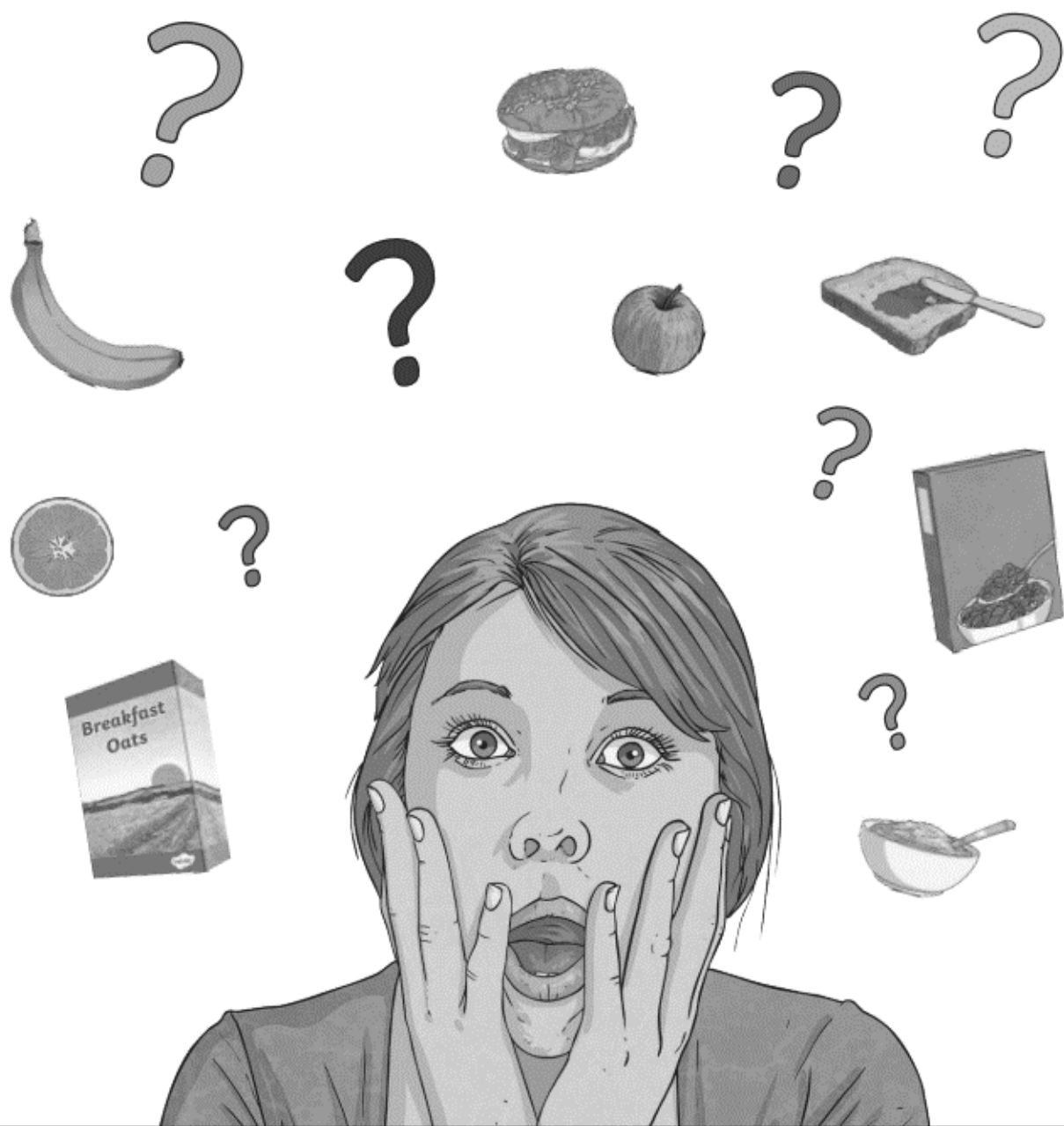
There's lots of different maths topics that will be used in the clues so you may need to look back at your previous learning possibly have your Revision Books close by if you think you'll need them.

# 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

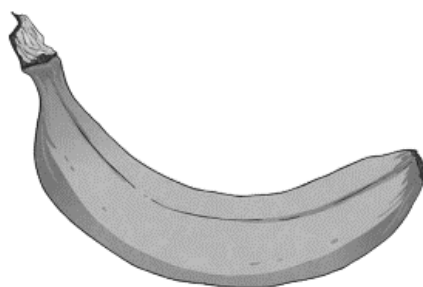
Check these maths calculations. If a calculation is right, put a tick. If it is wrong, put a cross.

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 |         |         |
| $9107 - 5432 = 3635$        |         |         |
| $£29.40 \div 5 = £5.83$     |         |         |
| $0.7 \times 5 = 3.5$        |         |         |
| $\frac{9}{10}$ 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: \_\_\_\_\_

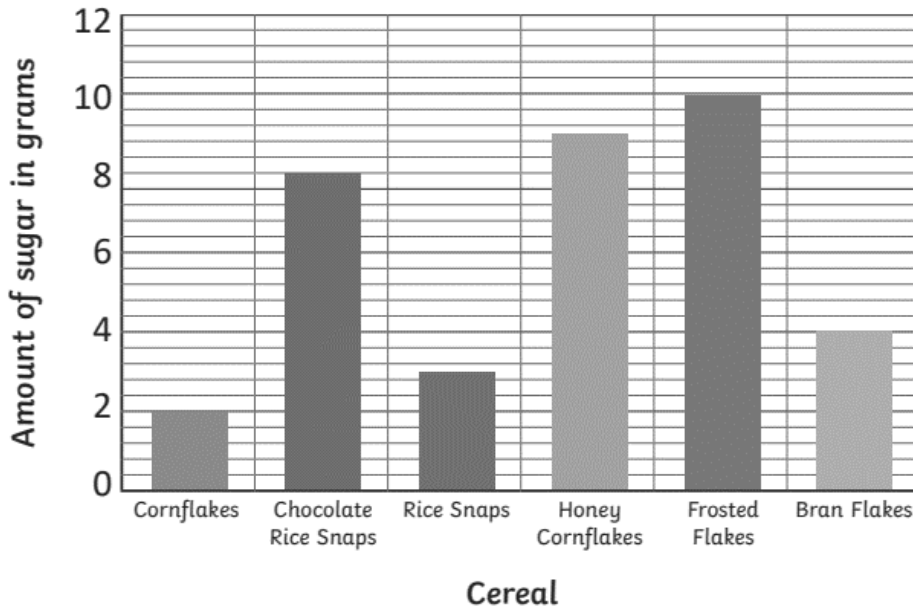
# The Mystery of the Brilliant Breakfast

## 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**



|                  |                        |                        |                     |
|------------------|------------------------|------------------------|---------------------|
| <b>9g</b><br>a   | <b>5g</b><br>packaging | <b>8g</b><br>breakfast | <b>7g</b><br>is     |
| <b>2g</b><br>the | <b>30g</b><br>bar      | <b>20g</b><br>box      | <b>40g</b><br>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

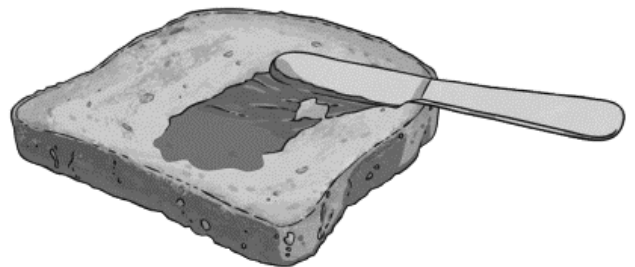
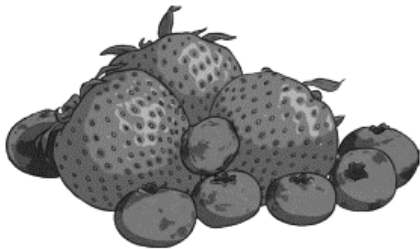
36

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.

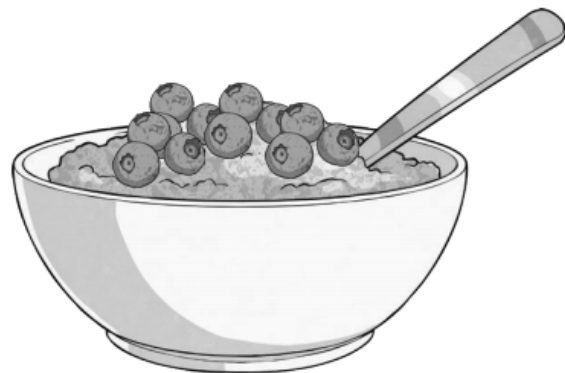
| a  | b  | c  | d  | e  | f  | g  | h  | i  | j  | k  | l  | m  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |

| 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: \_\_\_\_\_.

# Puzzle time

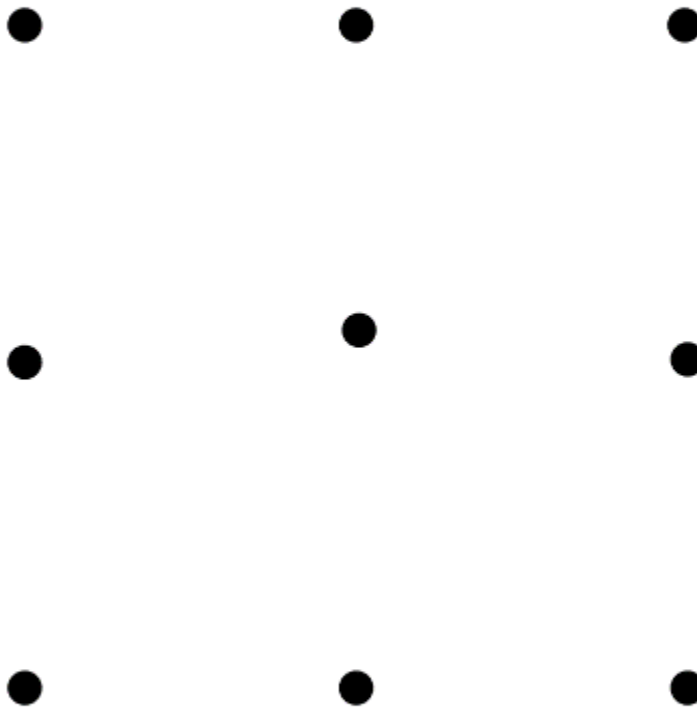
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## Puzzle time

### Four lines

Now this really does need some imaginative thinking - but it is possible!!



Can you join all nine dots with four straight lines, without taking your pencil off the paper? You can not go over any line twice.

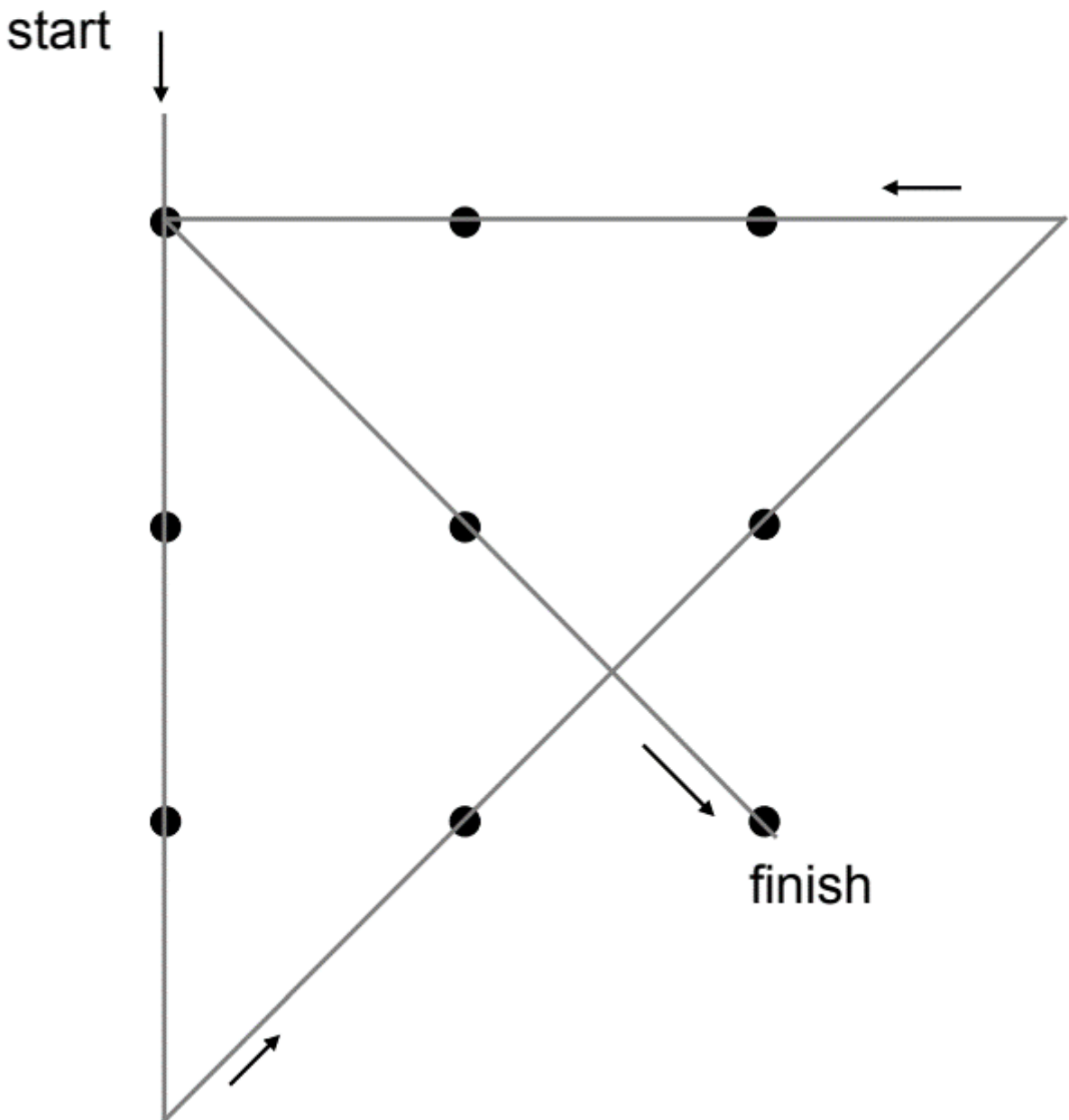
# ANSWERS - Puzzle time

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## Puzzle time



Four lines. The answer



## ANSWERS Maths Activity 5a - Ten in ten

1.  $1097 - 100 = 997$
2.  $146 \times 2 = 292$
3.  $7.1 + 1.6 = 8.7$
4.  $3 \times 6 \times 4 = 72$
5.  $\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$  or equivalent
6.  $420 \div 6 = 70$
7.  $12.8 \times 10 = 128$
8.  $30\% \text{ of } 1,200 = 360$
9.  $1.23 \times 5 = 6.15$
10.  $32 \times 60 = 1920$

### Challenge

11.  $\frac{4}{5} \times \frac{5}{6} = \frac{20}{30}$  or equivalent
12.  $8 + 96 \div 2 = 56$
13.  $\frac{2}{3} \div 4 = \frac{2}{12}$  or equivalent
14.  $4928 \div 14 = 352$
15.  $12.6 - 7.77 = 4.83$

# 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 | ✓        |          |
| $9107 - 5432 = 3635$        |          | ✗        |
| $£29.40 \div 5 = £5.83$     |          | ✗        |
| $0.7 \times 5 = 3.5$        | ✓        |          |
| $\frac{9}{10}$ of 21 = 18.9 | ✓        |          |
| $11 \times 11 = 250 - 129$  | ✓        |          |
| Total                       | <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<br>a   | 5g<br>packaging | 8g<br>breakfast | 7g<br>is     |
| 2g<br>the | 30g<br>bar      | 20g<br>box      | 40g<br>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**