Easter escape room!

Can you escape the Easter Room?

Solve the maths problems to pick up 6 digits.

Use the final clues to enter the correct combination of digits to escape!

* * * * * *

Sequences

Find the missing values to complete the sequences

$1\frac{3}{4}$	$1\frac{2}{4}$	$1\frac{1}{4}$	1	

$\frac{1}{5}$	$\frac{3}{5}$	$\frac{5}{5}$		$\frac{9}{5}$

4	$3\frac{1}{2}$	3		2

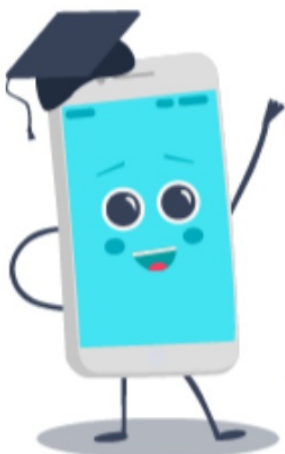|				
$\frac{1}{4}$		$2\frac{1}{4}$	$3\frac{1}{4}$	$4\frac{1}{4}$

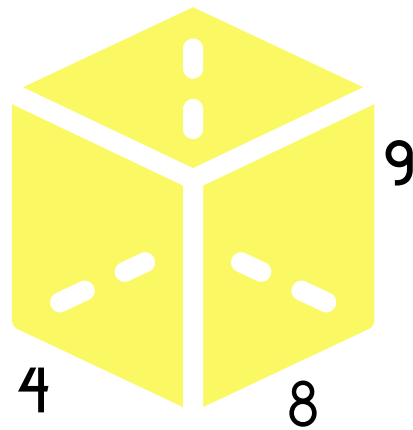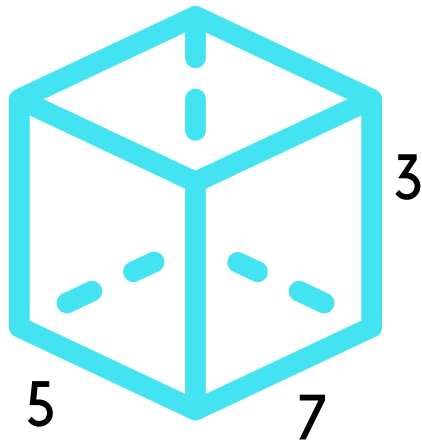|				
$1\frac{3}{10}$	1	$\frac{7}{10}$	$\frac{4}{10}$	

Convert all of the answers to improper fractions and then add all of the numerators and denominators. The 2nd digit of your answer is the first clue!
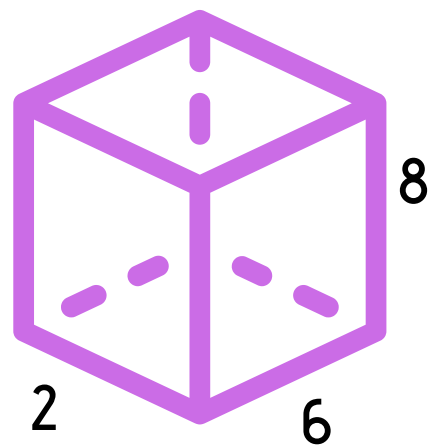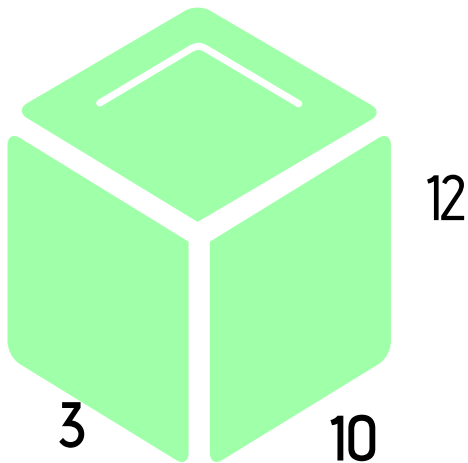
Clue 1

Easter egg box Volume

Calculate the volume of each Easter egg box! Find the **largest volume**.

(not to scale)

3

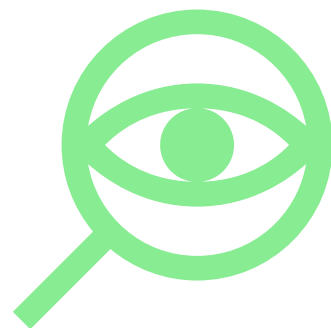5   7

9

4   8

12

3   10

8

2   6

Add each digit of the largest volume together until you are left with one number.   *Example: 233 = 2+3+3 = 8*
 This is your 2nd clue.

Clue 2

Spot the errors

Find the correct answer for each calculation THEN find the difference between the incorrect and correct answer. This is your "error answer" record this in the red boxes.

58 x 62 = 3,592

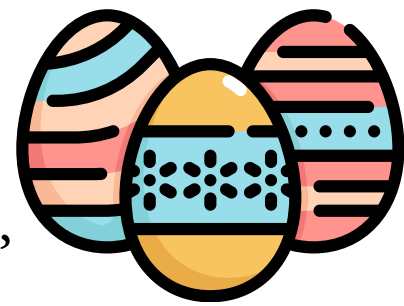65 x 74 = 4815

325 x 36 = 11,706

1,584 ÷ 12 = 135

1064 ÷ 8 = 141

1,188 ÷ 11 = 102

Add all the "error answers" together, then add the digits of that answer until you are left with one digit. *Example: 23 = 2+3 = 5* This is your 3rd clue.

Clue 3

Easter egg Algebra

Use the clues to find the value of each Easter egg,

(green egg) X (blue egg) = 45

(yellow egg) + (blue egg) = 11

(green egg) − (yellow egg) = 7

(green egg) = ?   (blue egg) = ?   (yellow egg) = ?

Add the values of all the eggs together, then add the digits until you are left with one digit. *Example: 23 = 2+3 = 5.*

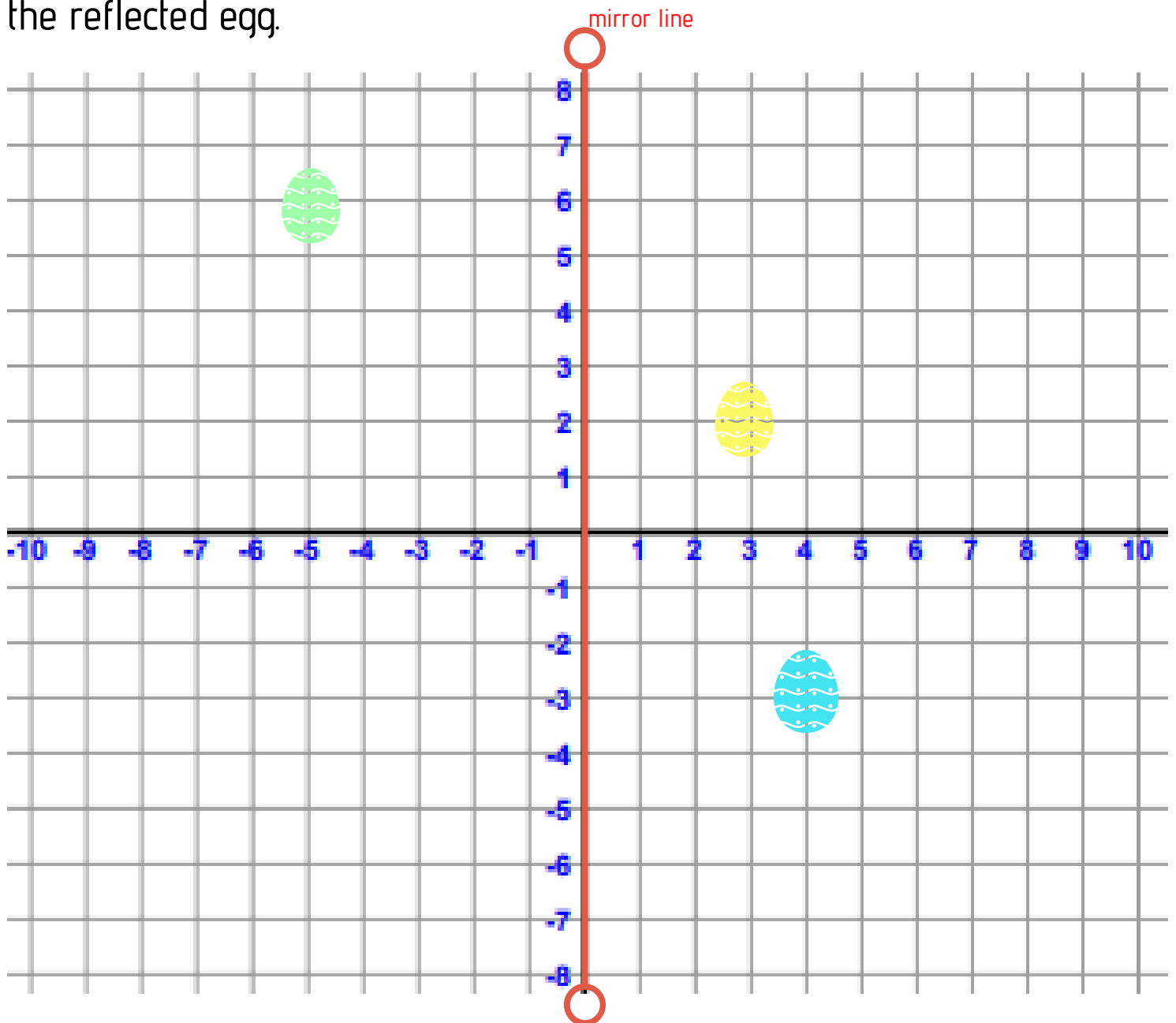This is your 4th clue.

Clue 4

Easter coordinates

Reflect each Easter egg across the y axis, then write the coordinates of the reflected egg.

mirror line

Add all the coordinates together to find your 5th clue.

Example: (3 ,2) (4,-1) (-2,4) = 3 + 2 + 2 + -1 + -2 + 4 = 8

🥚 (,   )

🥚 (,   )

🥚 (,   )

Clue 5

Hot cross buns ratio

This recipe for hot cross buns serves 8 people.

Recipe

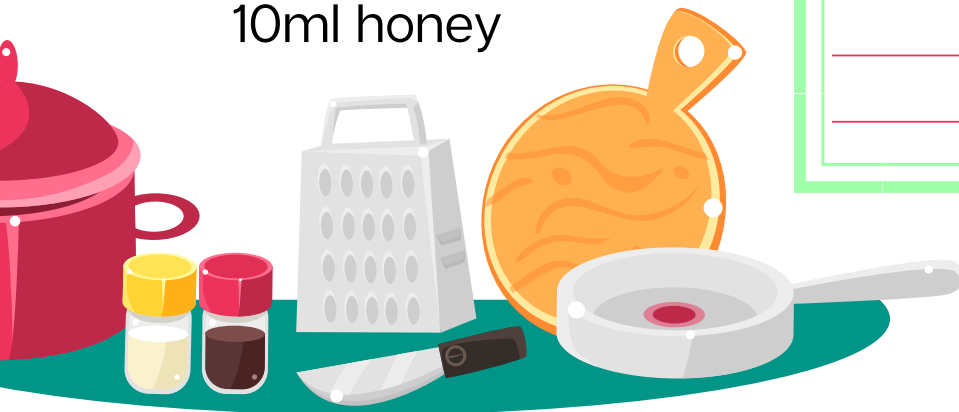500g white flour
½ tsp salt
2 tsp mixed spice
50g caster sugar
50g butter
200g mixed dried fruit
7g yeast
200ml milk
2 eggs
10ml honey

Fill in the missing measures for a recipe that **serves 12**
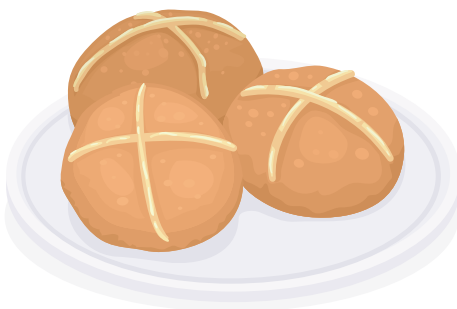
_____ g white flour

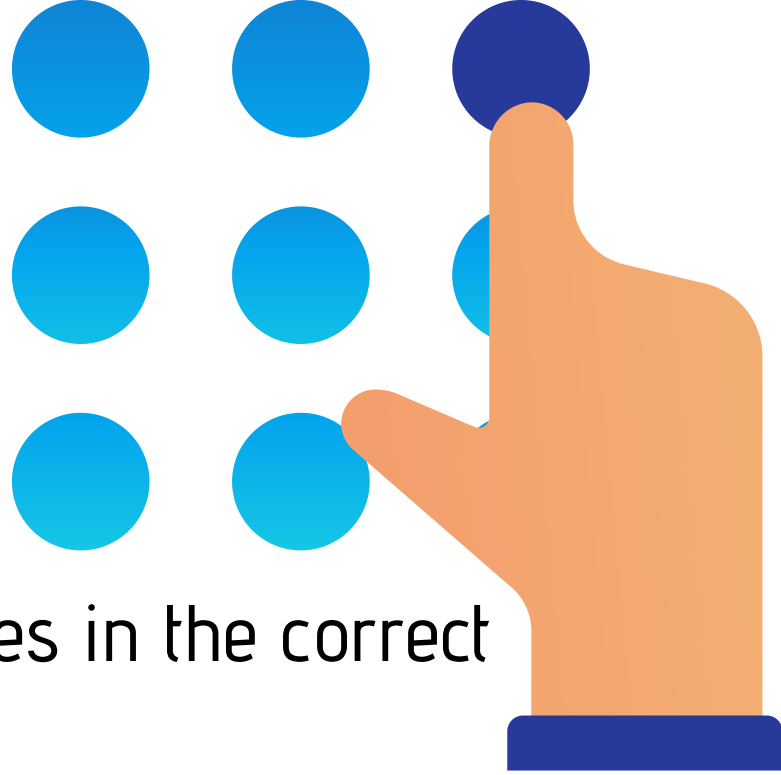_____ tsp mixed spice

_____ g butter

_____ ml milk

_____ eggs

Add all the measures together to find your 6th clue.

Example: 1254 = 1 + 2 + 5 + 4 = 12 = 1 + 2 = 3

Clue 6

Enter the code to escape!

You must enter the 6 clues in the correct order to escape!

🔑 Digit 1 & 6 are the same

🔑 Digit 1 & 2 are multiples of 3

🔑 The smallest number is in the 3rd space

🔑 The 4th digit is one less than digit 6

Sequences answers

$1\frac{3}{4}$	$1\frac{2}{4}$	$1\frac{1}{4}$	1	$\frac{3}{4}$

$\frac{1}{5}$	$\frac{3}{5}$	$\frac{5}{5}$	$\frac{7}{5}$	$\frac{9}{5}$

4	$3\frac{1}{2}$	3	$2\frac{1}{2}$	2

$\frac{1}{4}$	$1\frac{1}{4}$	$2\frac{1}{4}$	$3\frac{1}{4}$	$4\frac{1}{4}$

$1\frac{3}{10}$	1	$\frac{7}{10}$	$\frac{4}{10}$	$\frac{1}{10}$
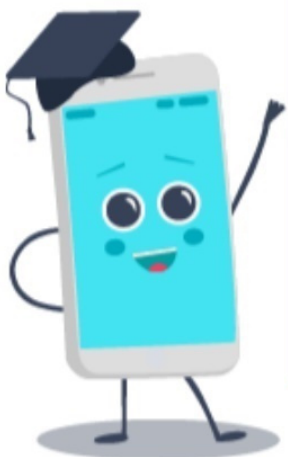
Clue 1 $\quad 2\frac{1}{2} = \frac{5}{2} \qquad 1\frac{1}{4} = \frac{5}{4}$

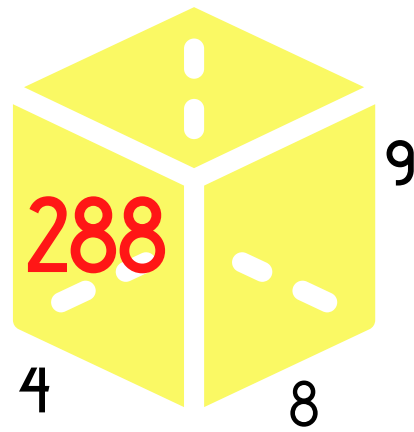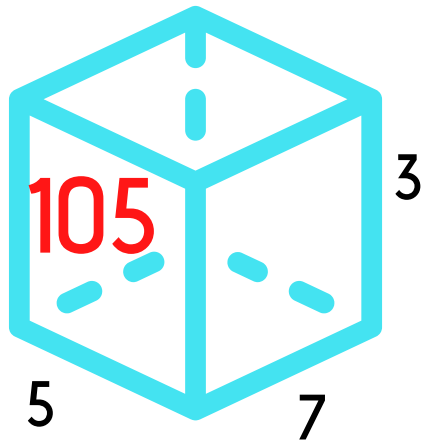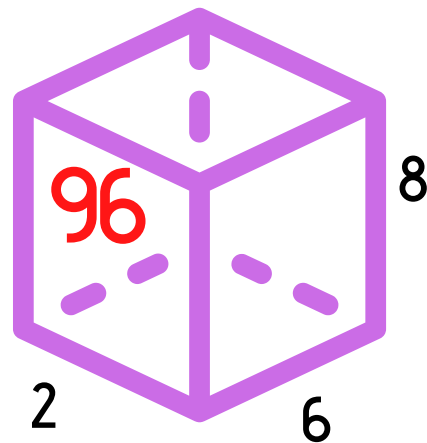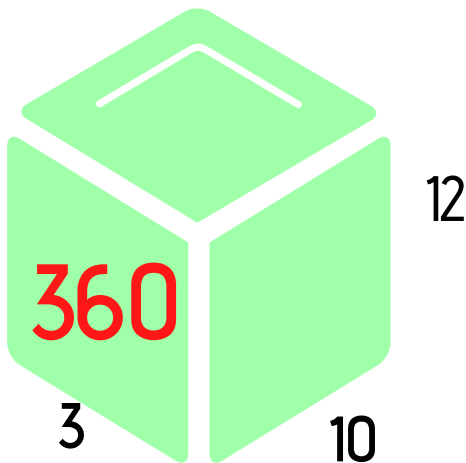$3 + 4 + 7 + 5 + 5 + 2 + 5 + 4 + 1 + 10 =$

$4\textcircled{6} \qquad\qquad 6$

Easter egg box Volume answers

Calculate the volume of each Easter egg box!
Find the largest volume.

(not to scale)

105   3   5   7

288   9   4   8

360   12   3   10

96   8   2   6

Add each digit of the largest volume together until you are left with one number. *Example: 233 = 2+3+3 = 8*
This is your 2nd clue.

Clue 2

360 = 3 + 6 + 0 = **9**

Spot the errors answers

Find the correct answer for each calculation THEN find the difference between the incorrect and correct answer. This is your "error answer" record this in the red boxes.

58 x 62 = 3,592

3596 - 3592 = 4

65 x 74 = 4815

4815 - 4810 = 5

325 x 36 = 11,706

11706 - 11700 = 6

1,584 ÷ 12 = 135

135 - 132 = 3

1064 ÷ 8 = 141

141 - 133 = 8

1,188 ÷ 11 = 102

108 - 102 = 6

Add all the "error answers" together, then add the digits of that answer until you are left with one digit. *Example: 23 = 2+3 = 5* This is your 3rd clue.
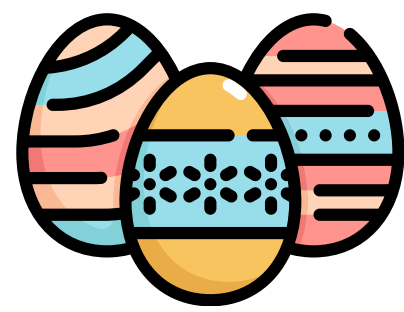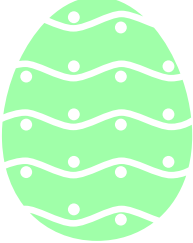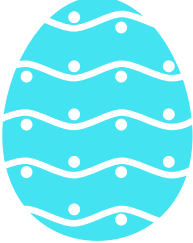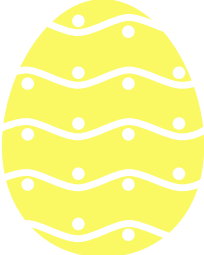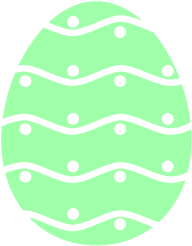
Clue 3

4 + 5 + 6 + 3 + 8 + 6 = 32

3 + 2 = **5**

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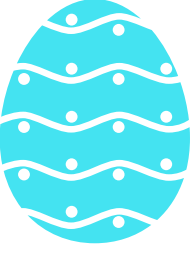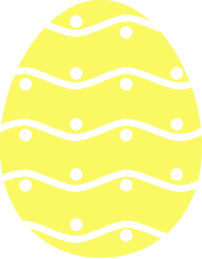
Easter egg Algebra answers
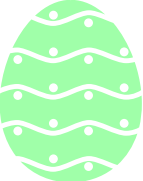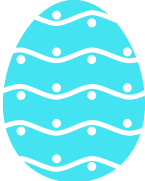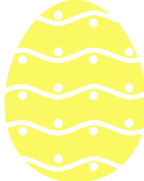
🟢 X 🔵 = 45

🟡 + 🔵 = 11

🟢 − 🟡 = 7

🟢 = 15   🔵 = 3   🟡 = 8

Add the values of all the eggs together, then add the digits until you are left with one digit. *Example: 23 = 2+3 = 5.* This is your 4th clue.
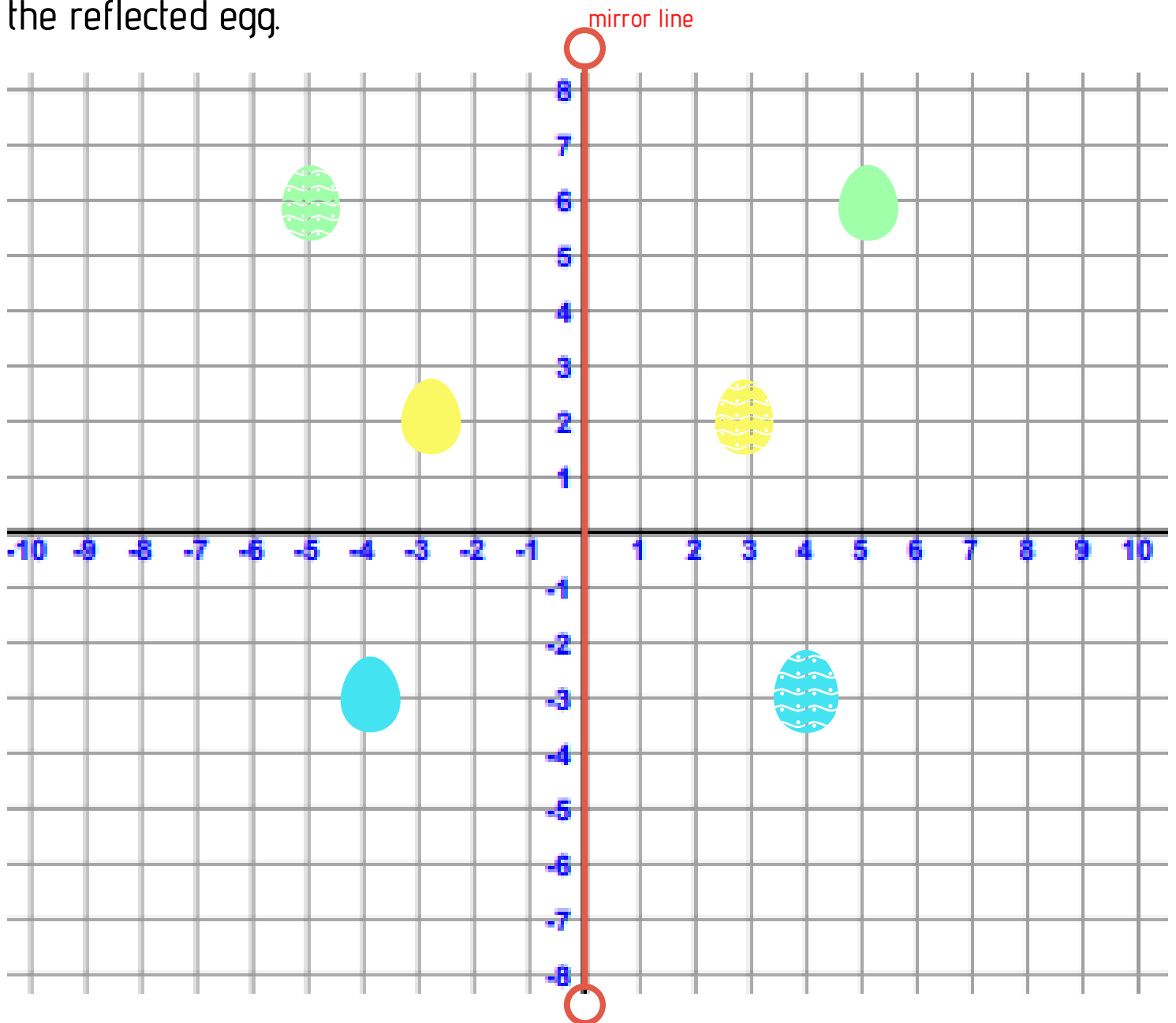
Clue 4
15 + 3 + 8 = 26
2 + 6 = 8

Easter coordinates answer

Reflect each Easter egg across the y axis, then write the coordinates of the reflected egg.

mirror line

Add all the coordinates together to find your 5th clue.

Example: (3 ,2) (4,-1) (-2,4) = 3 + 2 + 2 + -1 + -2 + 4 = 8

🟢 (5 , 6)

🟡 (-3 , 2)

🔵 (-4 , 3)

Clue 5
5 + 6 + -3 + 2 + -4 + 3 = 9

Hot cross buns ratio answer

This recipe for hot cross buns serves 8 people.

Recipe

500g white flour
½ tsp salt
2 tsp mixed spice
50g caster sugar
50g butter
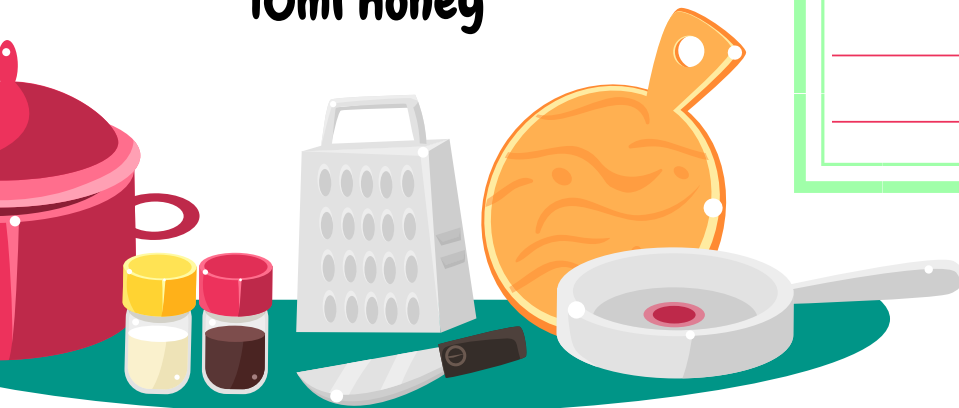200g mixed dried fruit
7g yeast
200ml milk
2 eggs
10ml honey

Fill in the missing measures for a recipe that **serves 12**

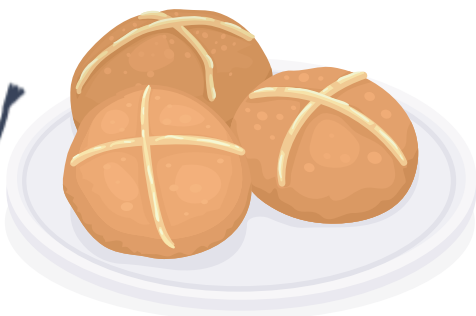**750** g white flour

3 tsp mixed spice

75 g butter

300 ml milk

3 eggs

Add all the measures together to find your 6th clue.
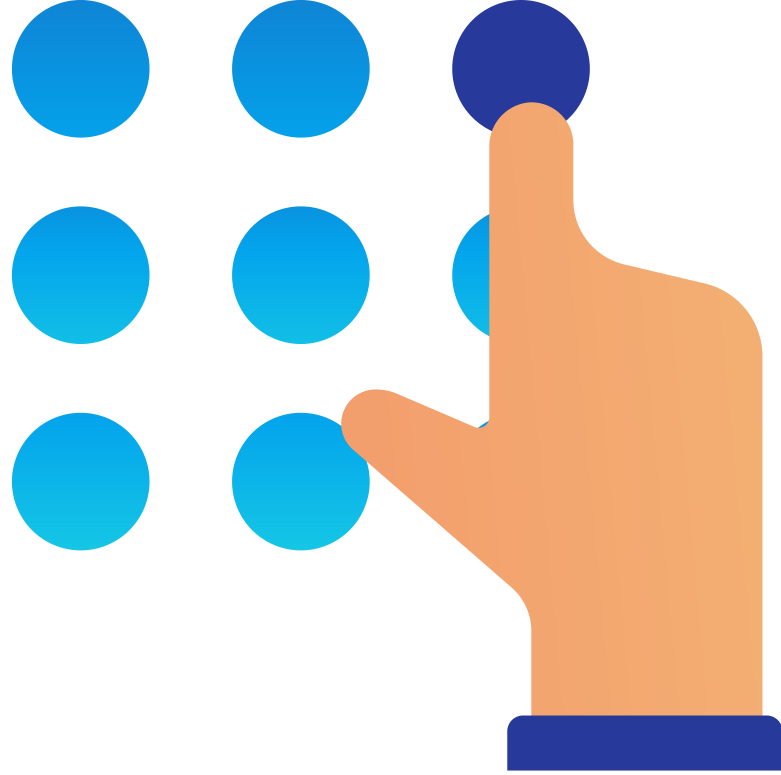
Example: 1254 = 1 + 2 + 5 + 4 = 12 = 1 + 2 = 3

Clue 6

750 + 3 + 75 + 300 + 3= 1131

1131 = 1 + 1 + 3 +1 = 6

Escape code answer!

🗝️ Digit 1 & 6 are the same

🗝️ Digit 1 & 2 are multiples of 3

🗝️ The smallest number is in the 3rd space

🗝️ The 4th digit is one less than digit 6

9	6	5	8	6	9