

# 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

$$1\frac{3}{4}, 1\frac{2}{4}, 1\frac{1}{4}, 1, \boxed{\phantom{00}}, \boxed{\phantom{00}}$$

$$\frac{1}{5}, \frac{3}{5}, \frac{5}{5}, \boxed{\phantom{00}}, \frac{9}{5}$$

$$4, 3\frac{1}{2}, 3, \boxed{\phantom{00}}, 2$$

$$\frac{1}{4}, \boxed{\phantom{00}}, 2\frac{1}{4}, 3\frac{1}{4}, 4\frac{1}{4}$$

$$1\frac{3}{10}, 1, \frac{7}{10}, \frac{4}{10}, \boxed{\phantom{00}}, \boxed{\phantom{00}}$$

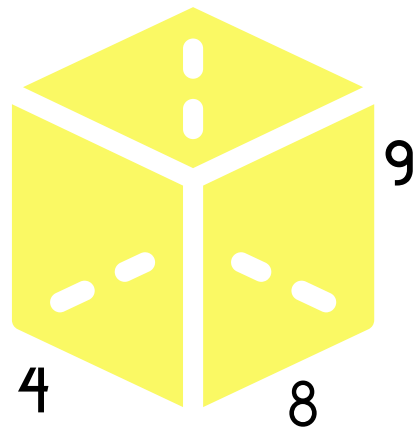
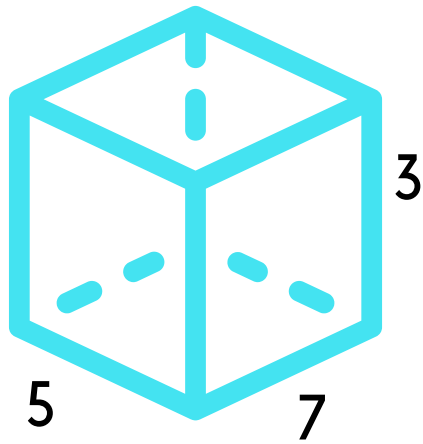
Add the missing values together to find the first number for your escape code!

**Clue 1**

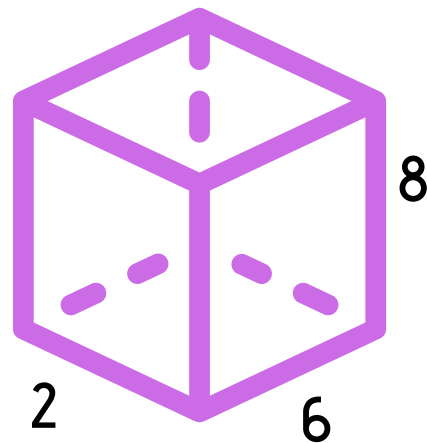
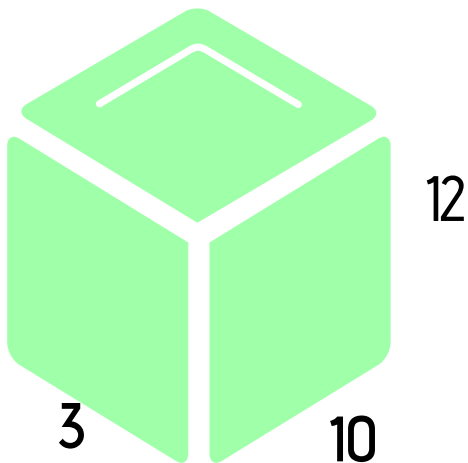


# Easter egg box Volume

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



(not to scale)



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. Find the difference between the incorrect and correct answer. This is your "error answer"



$$58 \times 62 = 3,592$$

$$65 \times 74 = 4815$$

$$325 \times 36 = 11,706$$

$$1,584 \div 22 = 75$$

$$1064 \div 38 = 20$$

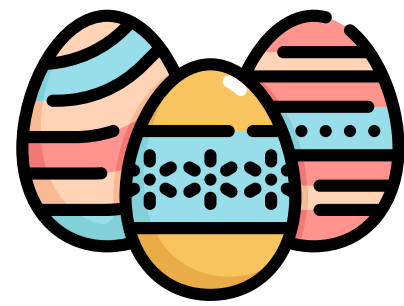
$$1,196 \div 23 = 46$$

Add all the "error answers" together, then add the digits 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,

$$\text{Green Egg} \times \text{Blue Egg} = 45$$

$$\text{Yellow Egg} + \text{Blue Egg} = 11$$

$$\text{Green Egg} - \text{Yellow Egg} = 7$$

$$\text{Green Egg} = ?$$

$$\text{Blue Egg} = ?$$

$$\text{Yellow Egg} = ?$$

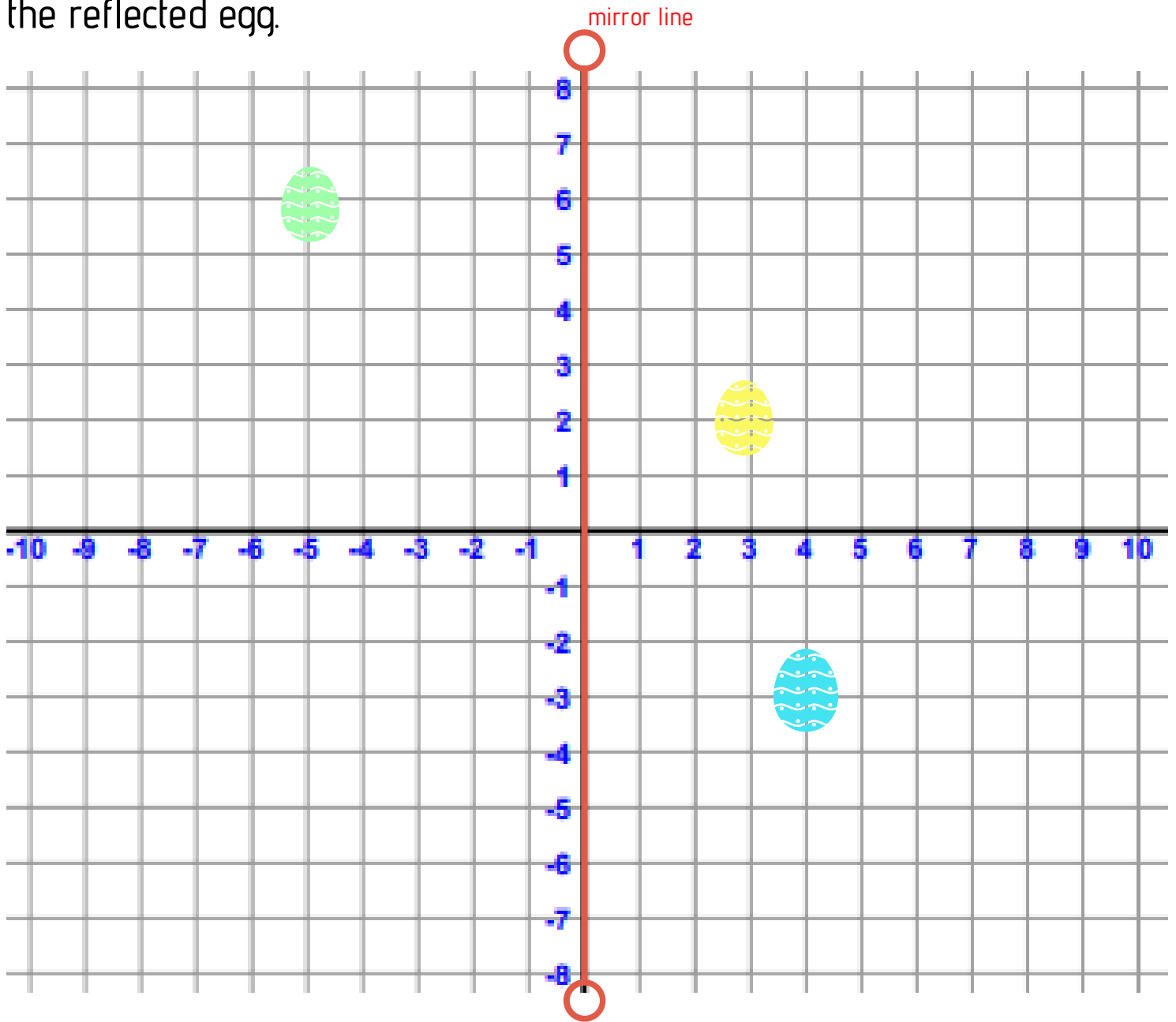
Add the values of all the eggs together, then add the digits until you are left with one digit. *Example: 23 = 2+3 = 5.* This is your 4th clue.



**Clue 4**

# Easter coordinates

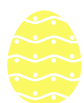
Reflect each Easter egg across the y axis, then write the coordinates of the reflected egg.



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

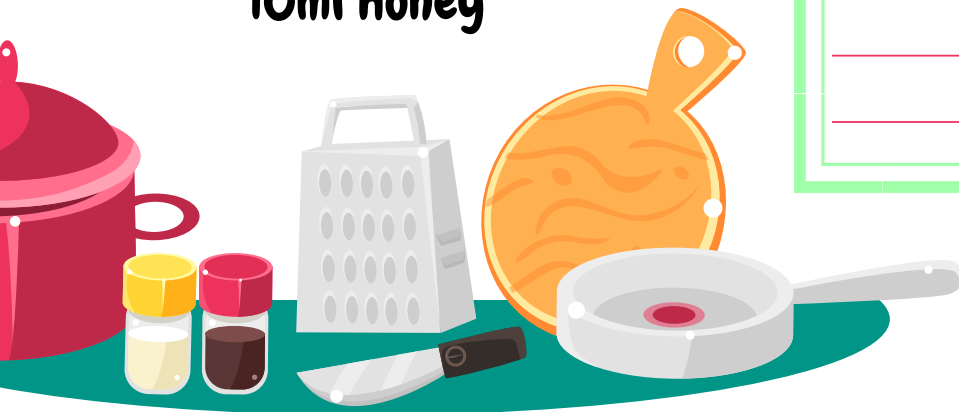
g white flour

tsp mixed spice

g butter

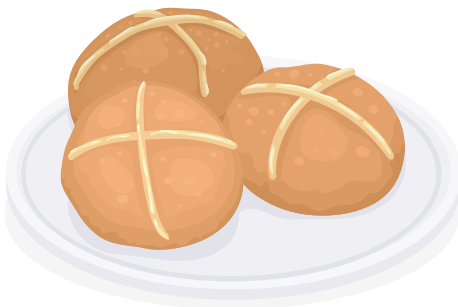
ml milk

eggs



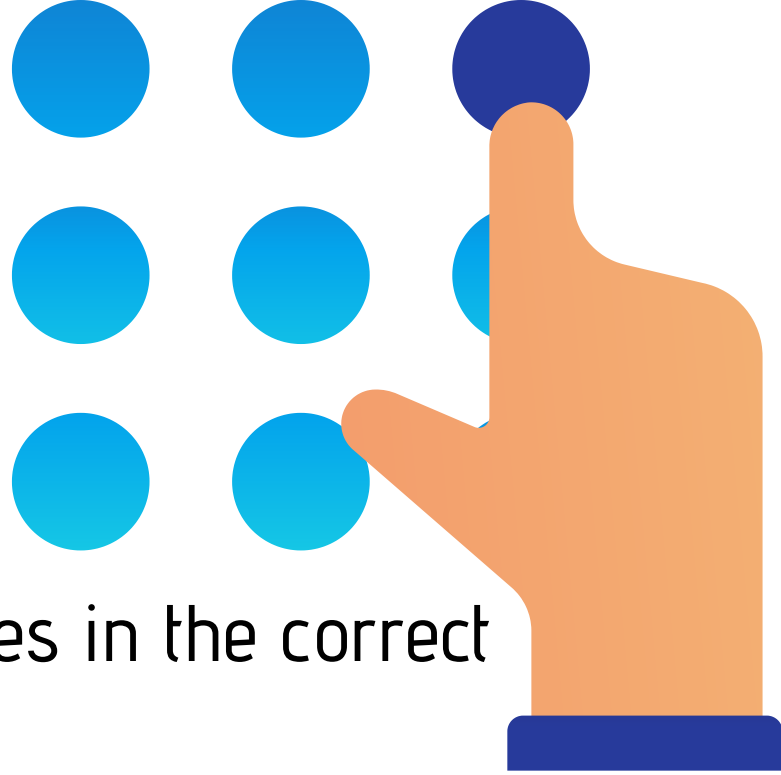
Add all the measures together to find your 6th clue.

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

Find the missing values to complete the sequences

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

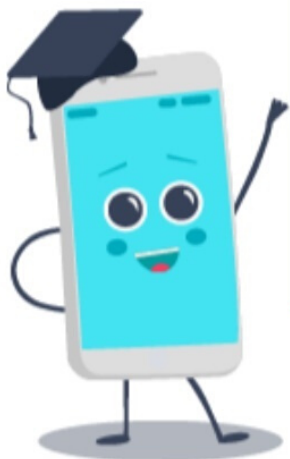
$$\frac{1}{5}, \frac{3}{5}, \frac{5}{5}, \boxed{\frac{7}{5}}, \frac{9}{5}$$

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

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

$$1\frac{3}{10}, 1, \frac{7}{10}, \frac{4}{10}, \boxed{\frac{1}{10}}$$

Add the missing values together to find the first number for your escape code!



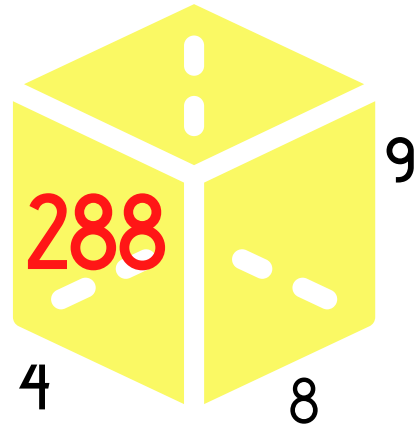
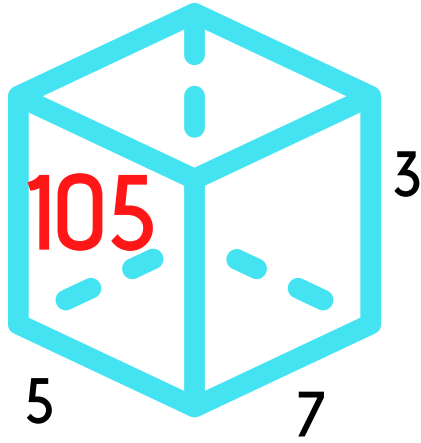
$$\begin{aligned} \text{Clue 1 } & \frac{3}{4} + \frac{7}{5} + 2\frac{1}{2} + 1\frac{1}{4} + \frac{1}{10} = \\ & \frac{15}{20} + \frac{28}{20} + \frac{50}{20} + \frac{25}{20} + \frac{2}{20} = \frac{120}{20} = 6 \end{aligned}$$

# Easter egg box Volume answers

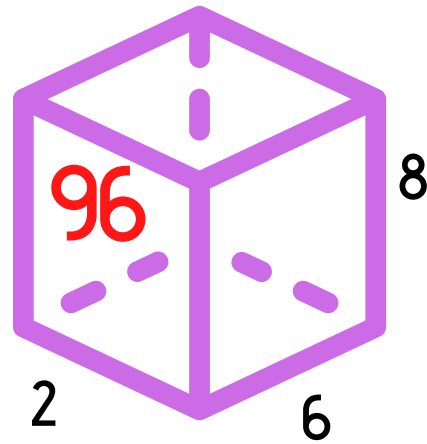
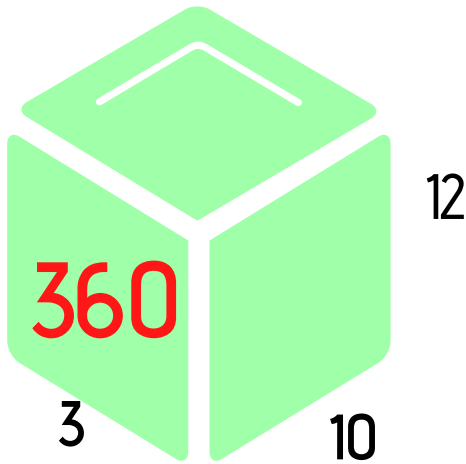


Calculate the volume of each Easter egg box!

Find the largest volume.



(not to scale)



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. Find the difference between the incorrect and correct answer. This is your "error answer"



$$58 \times 62 = 3,596$$

4

$$65 \times 74 = 4810$$

5

$$325 \times 36 = 11,700$$

6

$$1,584 \div 22 = 72$$

3

$$1064 \div 38 = 28$$

8

$$1,196 \div 23 = 52$$

6

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

This is your 3rd clue.

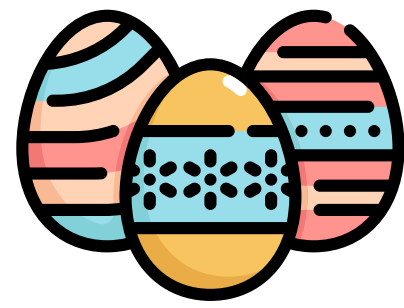


## Clue 3

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

$$3 + 2 = 5$$

# Easter egg Algebra answers



$$\text{Green Egg} \times \text{Blue Egg} = 45$$

$$\text{Yellow Egg} + \text{Blue Egg} = 11$$

$$\text{Green Egg} - \text{Yellow Egg} = 7$$

$$\text{Green Egg} = 15$$

$$\text{Blue Egg} = 3$$

$$\text{Yellow Egg} = 8$$

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.



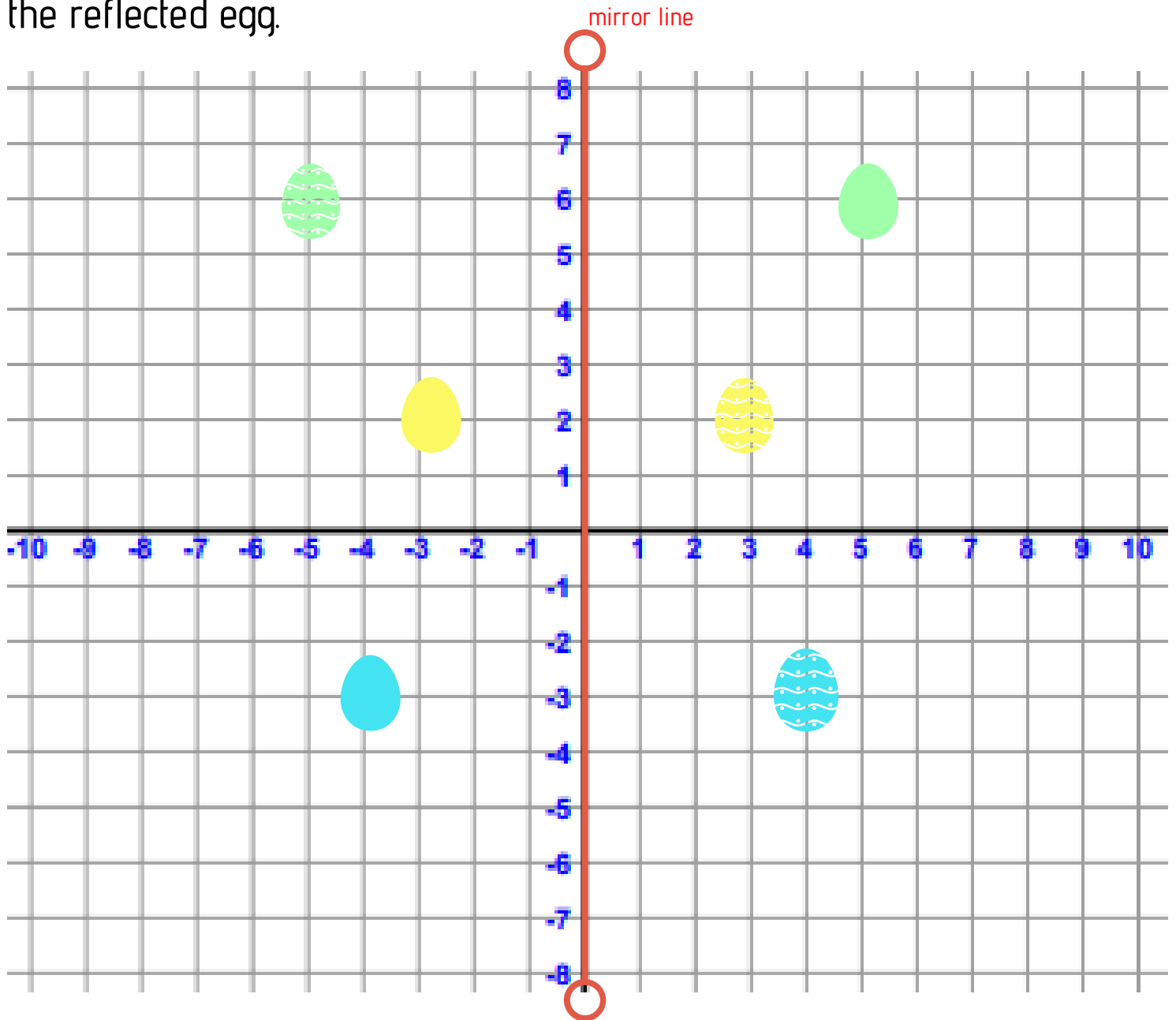
## Clue 4

$$15 + 3 + 8 = 26$$

$$2 + 6 = 8$$

# Easter coordinates answer


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



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

$\frac{1}{2}$  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

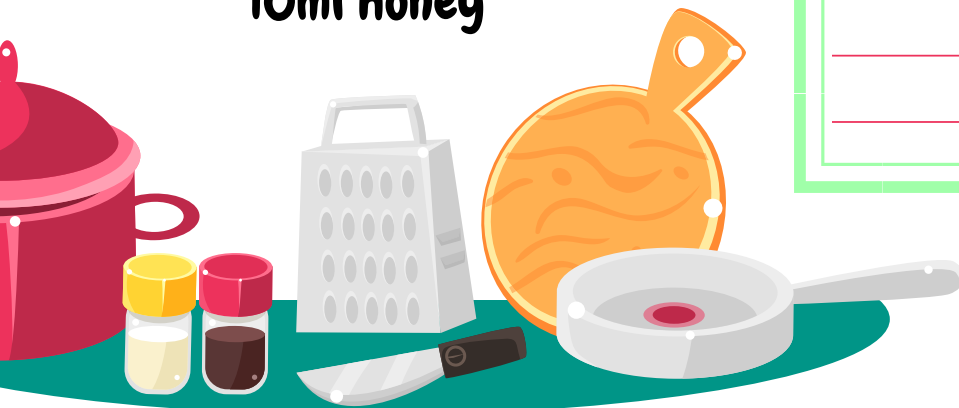
750 g white flour

3 tsp mixed spice

75 g butter

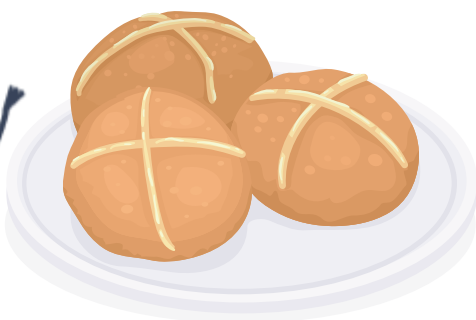
300 ml milk

3 eggs



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

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

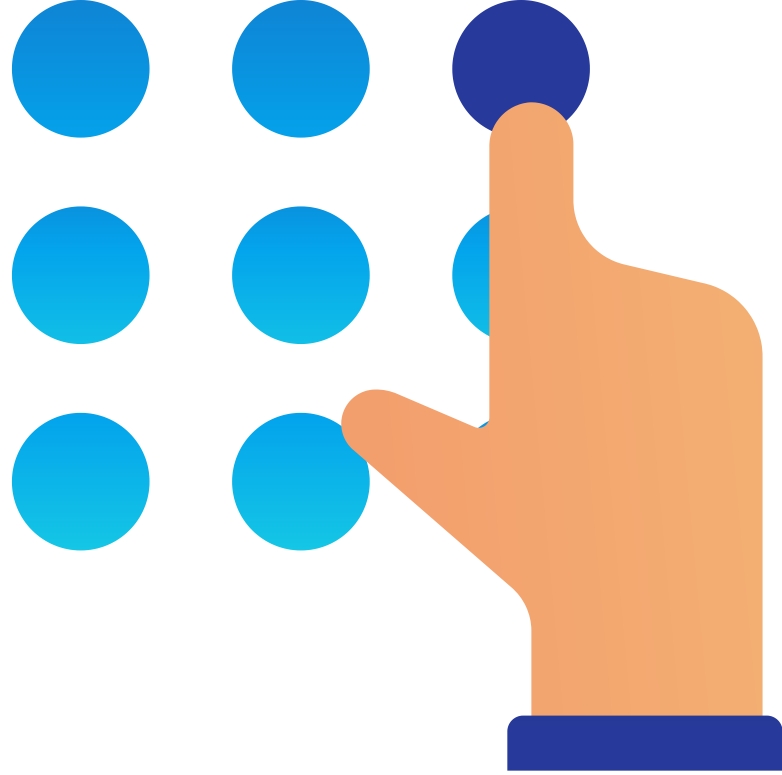






### Clue 6

$$750 + 3 + 75 + 300 + 3 = 1131$$

$$1131 = 1 + 1 + 3 + 1 = 6$$

# 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

