

Number Nest Weekly Challenge



Warm up

1. What is the value of $2 \times 0 \times 1 \times 7$? **0**
2. Harry Potter was born on 31 July 1984. How old he is today (in years)? **39**
3. How many minutes are in 3.5 Hours? **210 minutes**
4. Ashley and Ryan split £120.46 in half. How much do they each have?
£60.23
5. Find the sum of 31.2 and 78. **109.2**

Activity

1. My baby sister is 1500 days old today.
How many years old will she be on her next birthday?

$$1500/365 = 4.11$$

Therefore, 5 years old.

2. A rectangular piece of paper is folded in half to form a square. The area of the square is 36cm^2 . What is the perimeter of the original rectangle?

$$\text{Square root of } 36 = 6$$

$$6 \times 2 = 12$$

$$6 + 6 + 12 + 12 = 36$$

The perimeter of the original rectangle is 36cm.

3. Oranges cost 26p each and lemons cost 30p each. Gordon spent exactly £5 on a mixture of oranges and lemons. How many oranges and lemons altogether did he buy?

10 oranges and 8 lemons

4. How many of the following numbers are multiples of 11?

187 156 253 495 132

156 is the only one not divisible by 11. Therefore, 4 are multiples.

5. Forty hairy chinchillas weigh the same as fifty slim chinchillas.
Forty-five slim chinchillas weigh the same as fifty-four happy chinchillas. How many happy chinchillas weigh the same as fifty hairy chinchillas?

40 hairy = 50 slim

45 slim = 54 happy

?? happy = 50 hairy

If 40 hairy = 50 slim

4 hairy = 5 slim

36 hairy = 45 slim

So 36 hairy = 54 happy

2 hairy = 3 happy

50 hairy = 75 happy

Puzzle

Can you find this two-digit number?

When you add the digits together, the sum is 12.

When you reverse the digits of the number the new number is 36 more than the original number.

$$4 + 8 = 12$$

$$84 - 48 = 36$$

Answer is 48