

# Max's Spooky Halloween Maths Challenge

*Learning objective: To apply Class 5 mathematical skills including decimals, money, perimeter, and multiplication in a seasonal context.*

Help Max the monkey solve these Halloween-themed puzzles! Read each question carefully and write your answer clearly.

Answer Key: 1) C, 2) True, 3) 144, 4) A, 5) £12.50, 6) False, 7) 24, 8) B, 9) 36cm, 10) 9.

Explanations:

1)  $5 \times 8 = 40$ .

2) 0.5 is equal to  $\frac{5}{10}$  or  $\frac{1}{2}$ .

3)  $12 \times 12 = 144$ .

4)  $1000\text{g} = 1\text{kg}$ .

5)  $5 \times £2.50 = £12.50$ .

6) A prime number has only two factors: 1 and itself. 9 has three factors (1, 3, 9).

7)  $8 \times 3 = 24$ .

8)  $1500 + 750 = 2250$ .

9)  $(10 + 8) \times 2 = 36\text{cm}$ .

10)  $27 \div 3 = 9$ .

*Word bank: perimeter · decimal · product · calculate · factor · total*

**1. Max has 5 baskets, each containing 8 spider rings. How many rings are there in total? A) 35 B) 38 C) 40\* D) 45 (1 mark)**

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**2. True or False: The decimal 0.5 is equivalent to 50%. (1 mark)**

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**3. If a box of pumpkin seeds contains 12 packets and each packet has 12 seeds, how many seeds are there in total? (1 mark)**

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**4. Kit needs 1.5kg of sweets for a party. How many grams is this? A) 1500g\* B) 150g C) 15,000g D) 1050g (1 mark)**

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**5. Pip buys 5 masks that cost £2.50 each. How much does Pip spend in total? (1 mark)**

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**6. True or False: 9 is a prime number. (1 mark)**

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**7. Zara is painting 8 pumpkins. If each pumpkin needs 3 coats of paint, how many coats of paint will she apply in total? (1 mark)**

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8. What is  $1500 + 750$ ? A) 2150 B) 2250\* C) 2350 D) 2200 (1 mark)

9. A rectangular ghost decoration has a length of 10cm and a width of 8cm. What is the perimeter of the decoration? (1 mark)

10. If 27 small bats are shared equally into 3 spooky caves, how many bats are in each cave? (1 mark)

**Draw:** Draw a spooky scene featuring Max the monkey holding a basket filled with pumpkin-shaped sweets, and use geometric shapes to draw a haunted house in the background.



*Extension challenge: Max has £20.00 to spend on Halloween decorations. If he buys three items costing £4.25, £3.50, and £5.75, how much change should he receive? Show your working out.*