

Max's Spooky Fall Math Challenge

Learning objective: To apply Grade 4 mathematical skills including place value, addition, subtraction, multiplication, and money calculations within a seasonal context.

Read each question carefully. Show your working out in the space provided. Remember to include units like £ or p where required.

Max the monkey is organising a harvest party for his friends. He has been busy counting pumpkins, pricing treats, and measuring out ingredients for his special autumnal feast. Help Max solve his spooky math puzzles!

Word bank: Calculation · Estimate · Total · Difference · Product · Partition

1. Max has 4,528 small pumpkins and 3,194 large pumpkins. How many pumpkins does he have in total? Show your calculation. (2 marks)

2. A bag of mystical cinnamon sticks costs £2.45. If Max buys 4 bags, what is the total cost? Write your answer in dollars and cents. (2 marks)

3. Max finds 864 fall leaves. He wants to share them equally between 6 display baskets. How many leaves go in each basket? (3 marks)

4. If a box of 12 spider-shaped cookies costs £3.60, how much does one cookie cost? Show your division method. (3 marks)

5. Max has a budget of £20.00. He buys a lantern for £7.50 and a bag of apples for £4.25. How much change should he receive? Explain your steps. (4 marks)

6. Max wants to bake 15 batches of pumpkin muffins. Each batch requires 250g of flour. If he already has 2,000g of flour, how much more flour does he need to buy? Show your working clearly. (6 marks)

7. Max is writing a shopping list for his party. He needs to buy 3 packs of napkins at £1.15 each and 2 packs of party plates at £2.30 each. Write a short explanation (3-4 sentences) describing how you would calculate the total cost and whether you have enough money if you started with a £10 note. (5 marks)

Draw: Draw a pattern of 12 pumpkins in an array that shows 3 rows of 4 pumpkins, and label the total number.



Extension challenge: Total: /25. Can you write your own word problem involving pumpkins and money for a friend to solve?