

Max's Woodland Maths Challenge: Division

Learning objective: To recall and use division facts for the 3, 4, 6, 8, 11 and 12 multiplication tables and solve problems involving division.

Read each question carefully. Show your working out clearly so you can earn marks even if your final answer is slightly incorrect. You may use a pencil to draw arrays if it helps you solve the calculations.

Max the monkey is organising his forest pantry. He has been busy gathering nuts and fruits to share with his friends in the woodland. Max loves to use his maths skills to make sure everyone gets an equal share of his collection.

Word bank: remainder · quotient · dividend · divisor · multiple · partition

1. Max has 36 acorns. He wants to share them equally between 4 friends. How many acorns does each friend receive? (Show your calculation) (2 marks)

2. Calculate the following: $48 \div 8 = ?$ (1 mark)

3. Max has 27 blackberries. If he puts them into punnets of 3, how many punnets will he have filled? (2 marks)

4. Solve $84 \div 6$. You may partition the number to help you. (3 marks)

5. Max finds a bag of 50 peanuts. He shares them equally between 8 of his friends. How many peanuts does each friend get, and how many are left over as a remainder? (3 marks)

6. Max buys 9 decorative ribbons to wrap gifts for his friends. The total cost is £7.20. If each ribbon costs the same amount, how much does one ribbon cost? Show your working. (4 marks)

7. Max has a collection of 144 sunflower seeds. Explain, using a written method or a labelled diagram, how you would divide these seeds into 12 equal packets. Why is it helpful to know your 12 times table when solving this? (5 marks)

8. True or False: 0 divided by 7 is 0. Explain your answer. (5 marks)

Draw: Draw an array to represent the calculation $15 \div 3$. Label your rows and columns.

Extension challenge: Total: /25