

Max's Market Day Division Challenge

Learning objective: To recall and use division facts for the 3, 4, 6, 7, 8, 9, 11 and 12 multiplication tables and solve problems involving division.

Read the story below and help Max the monkey solve his market stall maths puzzles. Show your working out clearly for each question.

Max the monkey has been busy at the local market helping his friends organise their goods. He loves to make sure everything is shared fairly so that no one goes home empty-handed. Today, Max has a crate of 48 shiny red apples. He needs to pack them into smaller bags to sell. He also has a box of 36 colourful ribbons to share equally between 4 stallholders. Max knows that maths is the best way to keep the market running smoothly!

Word bank: divisor · quotient · remainder · divide · share · grouping

1. Max wants to pack his 48 apples into bags of 4. How many bags will he be able to fill? Show your calculation. (2 marks)

2. If Max shares the 36 ribbons equally between 4 stallholders, how many ribbons will each person receive? (2 marks)

3. A farmer brings 56 carrots to the market. He wants to put them into 8 equal bunches. How many carrots will be in each bunch? (2 marks)

4. Max finds 27 sunflower seeds. He divides them into 3 piles. How many seeds are in each pile? (2 marks)

5. Explain why Max cannot share 25 plums equally between 4 people without having some left over. How many would be left over? (3 marks)

Draw: Draw a picture of Max the monkey sorting 12 oranges into 3 equal baskets. How many oranges are in each basket?



Extension challenge: Max has 72 gold coins to share between 9 jars. If he adds 8 more coins to the total, can he still divide them equally into 9 jars? Explain your reasoning using division facts.