

Max the Monkey's Division Dash

Learning objective: To solve division problems involving 4-digit numbers by 1-digit numbers, including those with remainders.

Help Max the Monkey solve these mathematical puzzles. Show your working out clearly for each calculation. Remember to use the bus stop method for the longer division problems.

Max the Monkey is organising his jungle pantry. He has a large collection of fruit and treats that he needs to divide equally between his friends. Use your math skills to help him share them out fairly!

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

1. Max has 4,824 bananas. He wants to share them equally into 4 crates for his friends. How many bananas will be in each crate? (2 marks)

2. Max finds 2,565 shiny pebbles. If he gives an equal amount to 5 friends, how many pebbles does each friend receive? Will there be any pebbles left over? (2 marks)

3. Calculate $3,742 \div 6$. Show your method and write down the remainder. (3 marks)

4. Max buys 8 packs of mangoes. The total cost is £96.80. How much does one pack of mangoes cost? (2 marks)

5. If you have a 4-digit number and divide it by 9, what is the largest possible remainder you could have? Explain your reasoning. (2 marks)

Draw: Draw a picture of Max the Monkey using a clipboard and pencil to divide a pile of tropical fruit into four neat, equal baskets.



Extension challenge: Max has a mystery number. When he divides it by 7, he gets 452 with a remainder of 3. Can you use inverse operations to find Max's mystery number?