

Max's Percentage Puzzle Challenge

Learning objective: To calculate percentages of amounts, identify equivalent fractions and decimals, and solve percentage-based problems.

Max the monkey has been busy sorting his fruit collection! Help him solve these 10 quick-fire percentage questions to see if you have mastered the art of ratios and parts of a whole.

Answer Key: 1. A (25%), 2. False (50% is 0.5), 3. £25, 4. 20, 5. C (0.75), 6. True, 7. 10%, 8. B (10), 9. 40, 10. True. Max's Tip: Remember that 'per cent' means 'out of 100', so always look for ways to turn your fraction into a denominator of 100 first!

Word bank: Percentage · Fraction · Decimal · Equivalent · Whole · Amount · Ratio · Per cent

1. 1. Max has 100 bananas. He gives away 25. What percentage of the bananas did he give away? A) 25%* B) 50% C) 10% D) 75% (1 mark)

2. 2. True or False: 50% is the same as the decimal 0.05. (1 mark)

3. 3. What is 50% of £50? (1 mark)

4. 4. What is 20% of 100? (1 mark)

5. 5. Which decimal is equivalent to 75%? A) 0.7 B) 0.075 C) 0.75* D) 7.5 (1 mark)

6. 6. True or False: 10% of 200 is 20. (1 mark)

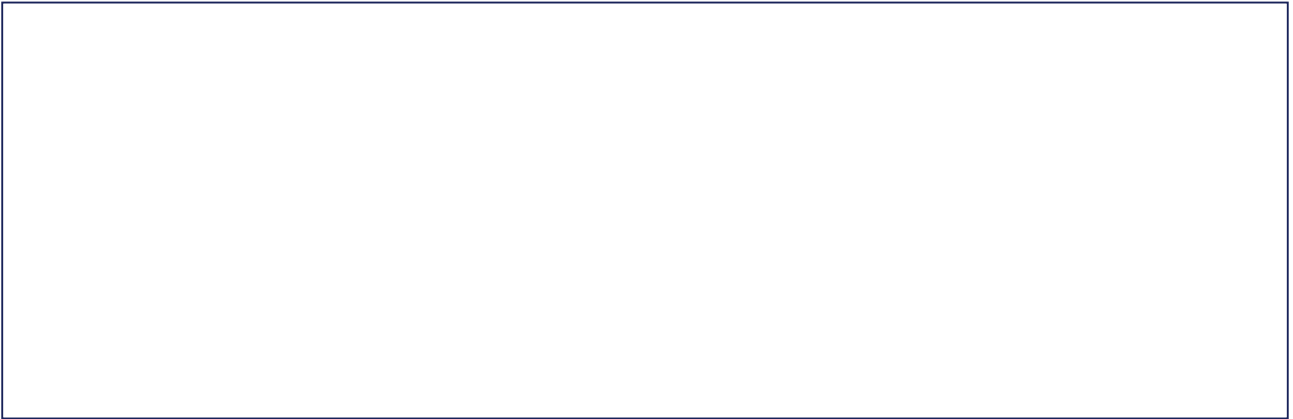
7. 7. If a book costs £20 and it is on sale for 50% off, how much money do you save? (1 mark)

8. 8. What is 25% of 40? A) 5 B) 10* C) 15 D) 20 (1 mark)

9. 9. If Max has 200 grapes and eats 20% of them, how many grapes did he eat? (1 mark)

10. 10. True or False: 100% of any number is the number itself. (1 mark)

Draw: Draw Max the monkey standing next to a large basket of 100 pieces of fruit, with a chalkboard behind him showing the calculation for 25% of 100.



Extension challenge: Challenge: If a toy costs £80 and the price increases by 10% due to tax, what is the new total price? Explain your working out.