

Year 5 Maths Assessment: Understanding Percentages

Learning objective: To recall, identify, and apply knowledge of percentages as fractions and decimals, and solve problems involving percentages of amounts.

Read each question carefully. Show your working out in the space provided to earn method marks. You have 30 minutes to complete this assessment.

Max the monkey is helping his friends organise a charity garden fair. He needs to calculate the costs for supplies and the portions of the garden being used for different stalls.

Word bank: percentage · fraction · decimal · equivalent · hundredths · proportion · total

1. Max has 100 sunflower seeds. He gives 35% of them to Zara. How many seeds does Zara have? Write your answer as a number. (1 mark)

2. Write 40% as a fraction in its simplest form. (2 marks)

3. Complete the table to show the equivalent values for the following percentages: (3 marks)

4. Finn the dolphin is selling raffle tickets. He has 200 tickets in total. He sells 50% of them in the morning and 25% in the afternoon. How many tickets has he sold in total? (3 marks)

5. A box of organic fertiliser costs £20. During the garden fair sale, the shop offers a 10% discount. What is the new price of the fertiliser? (4 marks)

6. Pip the caterpillar is designing a banner. The banner is 1 metre long. Pip paints 0.25 of it red, 20% of it blue, and the rest is yellow. What percentage of the banner is yellow? Explain how you calculated your answer. (7 marks)

7. Max wants to buy some gardening tools. He has £50. He sees a set of trowels for £15 and a watering can for £20. What percentage of his total money will he have spent if he buys both items? Show your steps. (5 marks)

Draw: Draw a 10x10 square grid and shade in 60% of the squares to represent the area Max has cleared for planting vegetables.



Extension challenge: Total: /25