

Max's Magnificent Decimal Dash

Learning objective: To recognize, write, and compare decimals with tenths and hundredths, and understand their relationship to fractions.

Max the monkey is organising a jungle sports day and needs your help with the measurements! Read each question carefully and circle the correct answer or write your response in the space provided.

Answer Key: 1. B (0.7), 2. False (0.08 is smaller than 0.8), 3. 0.45, 4. C (0.9), 5. True, 6. 0.05, 7. A (6.5), 8. 0.25, 9. 0.3, 10. False (0.5 is $\frac{5}{10}$ or $\frac{1}{2}$).

Word bank: decimal point · tenth · hundredth · place value · equivalent · fraction

1. 1. Max measured a vine length. Which decimal is the same as $\frac{7}{10}$? A) 0.07 B) 0.7* C) 7.0 D) 0.007 (1 mark)

2. 2. True or False: 0.08 is greater than 0.8. (1 mark)

3. 3. Write the fraction $\frac{45}{100}$ as a decimal. (1 mark)

4. 4. Which decimal is the largest? A) 0.09 B) 0.19 C) 0.9* D) 0.89 (1 mark)

5. 5. True or False: The digit 3 in 0.35 represents three tenths. (1 mark)

6. 6. If a piece of fruit costs £0.05, how is this written as a fraction of a pound (in hundredths)? (1 mark)

7. 7. Which number is equivalent to 6 and $\frac{5}{10}$? A) 6.5* B) 6.05 C) 6.50 D) 65.0 (1 mark)

8. 8. Max has £0.25. Write this as a fraction in its simplest form (using a slash). (1 mark)

9. 9. What is $0.2 + 0.1$? (1 mark)

10. 10. True or False: 0.5 is equal to $\frac{5}{100}$. (1 mark)

Draw: Draw a 10x10 square grid to represent one whole. Shade in 0.35 of the grid and label it with both the decimal and the fraction.



Extension challenge: 1. Explain why 0.5 is the same as 0.50. 2. Compare 0.4 and 0.40; are they equal? Justify your answer using place value. 3. If Max has £1.00 and spends £0.65, how much change does he get? Show your working. 4. What might happen if we forgot to write the decimal point in 0.09? 5. Justify why 0.1 is larger than 0.01. 6. Create your own word problem involving decimals for a friend to solve.