Unit 6 · Decimal

HARDER PRACTICE QUESTIONS

Full marks 33

Write your answers on separate paper. Show your working. When you add or take away decimals, write them in columns with the points in a line.

1 Spot the error [3]

Rohan says: "0.45 is bigger than 0.5, because 45 is bigger than 5."

i. Is he right? Explain.

ii. Write these from the smallest to the biggest: 0.5, 0.45, 0.405, 0.054.

2 Digit cards [3]

Swastika has four digit cards, 3, 0, 7 and 5, and a card with a point. She uses all five cards each time.

i. What is the biggest number she can make with two digits after the point?

ii. What is the smallest number she can make with three digits after the point?

iii. What number can she make that is nearest to 5?

3 Missing digits [3]

Find the missing digits: $3.\square 7 + \square.5\square = 7.02$

4 Shopping in kilograms [4]

Pratiksha buys $\frac{3}{4}$ kg of tomatoes, $1\frac{2}{5}$ kg of onions and 0.65 kg of chillies, and carries them all in one bag. The bag can hold 3 kg.

i. Write each weight as a decimal.

ii. How much does she carry in all?

iii. How much more could the bag hold?

5 Points out of line [3]

Kapil added 4.6 and 2.35 in columns. He wrote 2.35 under 4.6 with the **last digits** in a line, the 5 under the 6, and got 2.81.

i. What went wrong?

ii. Find the right answer.

iii. Give a quick check that shows 2.81 can't be right.

6 The same digit, different worth [3]

Look at the number 37.374.

i. Write the place value of each 3, and of each 7.

ii. How many times is the first 3 worth the second 3?

iii. How many times is the first 7 worth the second 7?

7 In between [3]

i. Write three different decimals between 0.4 and 0.5.

ii. Write one decimal between 0.45 and 0.46.

iii. Write a decimal with three digits after the point that is between 0.45 and 0.46, and nearer to 0.46.

8 A race [4]

Four friends ran 100 m. Their times were: Sabina 18.25 seconds, Dawa 17.9 seconds, Anish 18.08 seconds and Kriti 17.95 seconds.

i. Write the times from fastest to slowest. Who won?

ii. How much faster was the winner than the slowest runner?

iii. By how much did the winner beat the runner who came second?

9 Fraction or decimal? [4]

Which is bigger in each pair? Change the fraction into a decimal first.

i. $\frac{3}{4}$ or 0.7

ii. $\frac{2}{5}$ or 0.38

iii. $\frac{7}{25}$ or 0.3

iv. $1\frac{1}{4}$ or 1.3

10 Think [3]

i. Without adding them in columns, say whether 2.99 + 0.99 is more or less than 4, and by how much. Explain how you know.

ii. Make up two decimals, each with three digits after the point, that add up to exactly 1.