Test answers - Fractions and decimals: tenths and hundredths

Year: Year 4 · Duration: 35 minutes · /20

Answer to Question 1 (4 marks)

a. $^{3}/_{10}$ means 3 tenths. Tenths go in the first place after the decimal point, so $^{3}/_{10}$ = **0.3** (1 mark).
b. 0.07 has 0 tenths and 7 hundredths, so it is **7/100** (1 mark).
c. $^{9}/_{100}$ is 9 hundredths and no tenths. Write 0 in the tenths place and 9 in the hundredths place: **0.09** (1 mark).
d. 0.6 is 6 tenths. Each tenth is 10 hundredths, so 6 tenths = 60 hundredths: **60/100** (1 mark).

Answer to Question 2 (4 marks)

a. 2.55 has two 5s. The first is in the tenths place, worth **0.5** (5 tenths); the second is in the hundredths place, worth **0.05** (5 hundredths) (1 mark).
b. Compare the ones first: 0.25 is the only number with 0 ones. The rest have 2 ones, so compare tenths: 2.05 has 0 tenths, 2.5 and 2.55 have 5. Then 2.5 = 2.50 is less than 2.55. Order: **0.25, 2.05, 2.5, 2.55** (2 marks).
c. 2.55 lies between 2 and 3. Its tenths digit is 5, so we round up: **3** (1 mark).

Answer to Question 3 (4 marks)

a. Each step is 0.1. From 4 to 4.6 is 6 tenths, so the arrow is **6** steps from 4 (1 mark).
b. 0.3 more is 3 more steps: 4.6 + 0.3 = **4.9** (1 mark).
c. 0.5 less is 5 steps back: 4.6 − 0.5 = **4.1** (1 mark).
d. 4.6 lies between 4 and 5. The tenths digit is 6, which is 5 or more, so round up to **5** (1 mark).

Answer to Question 4 (4 marks)

a. Add pounds and pence separately: £2 + £1 = £3 and 35p + 80p = 115p = £1.15. Total £3 + £1.15 = **£4.15** (2 marks: 1 for the method, 1 for £4.15).
b. Count on from £4.15 to £5: 85p. Her change is **£0.85**, or 85p (1 mark).
c. £1 is 100p, so £2 is 200p. Add the 35p: 200 + 35 = **235p** (1 mark).

Answer to Question 5 (4 marks)

a. The fastest runner has the smallest time. 11.95 is the only time under 12 seconds, so **Omar** was fastest (1 mark).
b. Pair the times cleverly: 11.95 + 12.05 = 24.00 and 12.4 + 13.1 = 25.5. Then 24 + 25.5 = **49.5 seconds** (2 marks: 1 for the method, 1 for 49.5).
c. 49.5 is less than 50, so **yes**, the team beat the record, by 50 − 49.5 = 0.5 seconds (1 mark).