

Lesson 5 **NUMBER**

Rounding decimals to nearest whole, tenth and hundredth

CURRICULUM ALIGNMENT

NUM.PVT.4

investigate how decimals and percentages (and fractions) can be compared, ordered and expressed in related terms.

INTERACTIVES **Number Line · challenge, display**

WHAT THIS LESSON TEACHES

To round a decimal look at the two nearest tidy numbers and pick the one it sits closer to on the line.

→ 4.7 is closer to 5 than to 4 so rounds to 5.

→ 0.34 to the nearest tenth sits between 0.3 and 0.4.

MODEL THIS ON THE BOARD

ROUNDING 1.275 TO NEAREST HUNDREDTH

- 1 Look at the thousandths digit which is 5.
- 2 The hundredths digit is 7 so the two candidates are 1.27 and 1.28.
- 3 Because the digit is 5 we round up to 1.28.

ANSWER KEY

a) 3.3

b) 3.5

c) 3.4

Q1: 3 kg

Q2: 1 kg

Q3: 0.8 litres

Q4: 2.5 kg

Q5: 0.35 kg

Q6: 2.00 kg

a) **Always** : The tenths digit decides, and 5 or more rounds up: 6.5 rounds to 7 and 6.58 rounds to 7.

b) **Sometimes** : 4.28 rounds up to 4.3, but 4.21 rounds down to 4.2.

c) **Never** : To the nearest whole number you look at the tenths digit. It is 3, so 2.35 rounds down to 2.

d) **Sometimes** : 0.624 rounds to 0.62 and keeps its 6 tenths, but 0.297 rounds to 0.30 and the tenths digit changes.

EXTENSION SHEET · STRETCH ANSWERS

S1: 52.12

S2: 1.23

S3: 57.04

S4: 50.63

S5: 6.08