Rounding decimals: answers and notes

What your child practised: rounding decimals with one decimal place to the nearest whole number, using the tenths digit to decide (Year 4).

Page 1 · Warm up

4, 4.6, **5** · **0**, 0.3, **1** · **12**, 12.9, **13**

Page 2 · Try it together

Answers will vary. Check: tenths 0–4 keep the whole number (13.4 cm → 13 cm); 5–9 go up one (13.6 cm → 14 cm).

Page 2 · A. Dots on the hill

7.2 → **7** · 1.5 → **2** (halfway rounds up) · 15.8 → **16**

Page 3 · B. Round

4.4 → **4** · 8.5 → **9** · 12.9 → **13**
0.6 → **1** · 19.5 → **20** · 30.1 → **30**

Page 3 · C. Rounds to 5

Ring **4.5, 5.1, 4.9, 5.4**. Not 4.2 (→ 4), 5.5 (→ 6), 6.0 (→ 6) or 3.5 (→ 4).

Page 3 · D. Measurements

3 cm · **6 kg** · **10 km**

Challenge: No. Leo has just dropped the tenths. The tenths digit is **9**, so 3.9 rounds **up** to **4**. It's only one tenth away from 4, but nine tenths away from 3.

Watch out for

- **Rounding 5 down** (8.5 → 8). A tenths digit of 5 is halfway, and halfway rounds up: 9.
- **Just dropping the decimal**, like Leo (3.9 → 3). Ask "Is it nearer 3 or 4?"
- **Going the wrong way** (4.4 → 5). Ask the same question: 4.4 is nearer to 4.
- **Numbers under 1**: 0.6 rounds to 1, and 0.3 would round to 0.

Going further (5 minutes, no paper)

- **Kitchen numbers:** find weights or amounts like 1.5 kg or 0.7 litres on food packets and round them.
- **Hop and round:** say a decimal like 2.6. Your child hops the whole number it rounds to.
- **In the game:** this is the last chapter. Play any hill again to practise 10s, 100s, 1,000s and decimals together.