

Lesson 6: Halves and quarters

→ pages 21–23

- $0.25 = \frac{1}{4}$ (or an equivalent fraction; for example: $\frac{25}{100}$)
 - $0.50 = \frac{1}{2}$ (or an equivalent fraction; for example: $\frac{50}{100}$)
- 75 squares shaded
 - $\frac{3}{4} = 0.75$
- $\frac{1}{4} = 0.25$
 - $\frac{2}{4} = 0.5$
 - $\frac{3}{4} = 0.75$
 - $\frac{1}{2} = 0.5$
- 1 square shaded
 - 12 squares shaded
 - 6 squares shaded
- Bella is correct; 0.5 is equivalent to $\frac{1}{2}$ and so Zac and Emma have the same number of apples (6 each).
- 0.25 is equivalent to $\frac{1}{4}$. $\frac{1}{4} \times 4 = 6$ counters. Thus, the total number of counters is $6 \times 4 = 24$. Hence there are $24 - 6 = 18$ grey counters.
Lee has 18 grey counters.

Reflect

Grid should show 75 squares shaded which are 75 hundredths ($\frac{75}{100}$), which is equal to 0.75.

Lesson 7: Problem solving – decimals

→ pages 24–26

- 1 kg = 1,000 g
3 kg = 3,000 g
8,600 g = 8 kg and 600 g
5,300 g = 5 kg and 300 g
- 2 kg 200 g 2 kg 200 g 2 g
3. Circled:
a) 1,000 ml c) 8 litres
b) 1 l 500 ml d) 2,030 ml
4. 3 children are tall enough to go on the ride.
5. The width of the football field is 300 metres.
6. a) 500 m
b) 6 km and 300 m
c) 5,700 m
d) 3,500 m
e) 3,050 m
7. a) 800 ml
b) 2,950 g
c) 1 kg and 700 g
8. 102 millilitres < 450 ml < $\frac{1}{2}$ a litre (500 ml) < 0.25 of 4 litres (1,000 ml) < 1 l 200 ml (1,200 ml)

Reflect

Explanations will vary but children should recognise that you need to multiply by 1,000 since 1 litre = 1,000 ml, 1 kg = 1,000 g and 1 km = 1,000 m.

End of unit check

→ pages 27–28

My journal

Same: All numbers are decimals and contain the digits 2 and 7. $7\cdot2$ and $7\cdot20$ have the same value.

Different: The values of the digits are different for the cards $7\cdot20$ and $0\cdot27$.

Power puzzle

Container	Number of litres the container holds
glass	0.2 l
jug	1 l
bucket	7 l
barrel	140 l
padding pool	1,120 l

It would take 5,600 glasses to fill the padding pool.

Unit 12: Money

Lesson 1: Pounds and pence

→ pages 29–31

- a) 159 pence b) 254 pence c) 109 pence
- a) 2 pounds 76 pence
b) 4 pounds 25 pence
c) 7 pounds 8 pence
- Notes/coins circled:
a) £5, £2, £1, 50p, 20p and 2p
b) £10, £2, 10p, 5p, 2p and 1p
- Missing amounts:
a) 78p c) 195p
b) £3 and 67p d) 1,095p
- a) £1.97 b) £4.06 c) £2.40
- a) £2.58 f) 895p
b) £3.70 g) 209p
c) £4.08 h) 290p
d) £12.57 i) 1,115p
e) 118p j) 900p
- Box A = £3 Box C = £3.10
Box B = £30 Box D = £29

Reflect

£3.18; £3 and 18 pence; 318p

