

Lesson 4: Multiplying decimals by a 1–digit number using the formal written method

Challenge 1

- 1 a 18 1.8 0.18
b 56 5.6 0.56
c 54 5.4 0.54
d 28 2.8 0.28
e 72 7.2 0.72
f 12 1.2 0.12
g 63 6.3 0.63
h 48 4.8 0.48

- 2 a 4.8 d 40
b 3.6 e 0.72
c 7.2 f 44.1

Challenge 2

- a 266.4 f 53.64
b 20.19 g 269
c 245.7 h 191.45
d 19.46 i 69.02
e 459.24

Challenge 3

- a $5 \times \text{£}6.85 = \text{£}34.25$;
 $\text{£}50 - \text{£}34.25 = \text{£}15.75$
b $5 \times \text{£}18.50 = \text{£}92.50$;
 $\text{£}92.50 - \text{£}34.25 = \text{£}58.25$
c $\text{£}3.80 \times 7 = \text{£}26.60$;
 $\text{£}50 - \text{£}26.60 = \text{£}23.40$
d $7 \times 27.39 = \text{£}191.73$
 $\text{£}191.73 \times 3 = \text{£}575.19$
 $\text{£}575.19 - \text{£}191.73 = \text{£}383.46$
e $100 \text{ m} = 0.1 \text{ km}$
 $15.62 \div 0.1 = 156.2$
 $156.2 \times \text{£}0.09 = \text{£}14.06$