Solutions

Marking: **M1** a correct method, **A1** the correct answer, **B1** an independent mark.

Each answer shows the steps, then the **result**.

2.1

- $6.3 \div 2.8 = \mathbf{2.25}$

2.2

- $17.64 + 5.5 = \mathbf{23.14}$

2.3

- $0.6 \times 60 = 36$, so **3 h 36 min**

2.4

- $12 \div 60 = 0.2$, so **1.2 h**

2.5

- $4.159326\ldots \div 9.261 = 0.449122\ldots$
- $= \mathbf{0.449}$

3.1

(a)

- numerator $14.7 + 17.576 = 32.276$; denominator $\sqrt{21.5} = 4.636809\ldots$
- $= \mathbf{6.960821176}$

(b)

- **6.96**

3.2

(a)

- **38.40 yuan**

(b)

- $50 - 38.40 =$ **11.60 yuan**

3.3

- $18 \text{ min} = \dfrac{18}{60} = 0.3 \text{ h}$, so $t = 2.3 \text{ h}$
- $\text{speed} = \dfrac{\text{distance}}{\text{time}} = \dfrac{46}{2.3}$
- $=$ **20 km/h**

3.4

(a)

- $318 \times \dfrac{6.4}{100}$
- $=$ **20.352 litres**

(b)

- $20.352 \times 7.85 = 159.7632$
- $=$ **159.76 yuan**

(c)

- $20 \times 7.85 = 157.00$; $159.76 - 157.00 =$ **2.76 yuan**

(d)

- $\text{time} = \dfrac{\text{distance}}{\text{speed}} = \dfrac{318}{75} = 4.24 \text{ h}$
- $0.24 \times 60 = 14.4$ min, so **4 h 14 min**