Solutions

Marking: **M1** a correct method, **A1** the correct answer.

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

2.1

- yuan to dollars, so divide by the rate: $504 \div 7.2$

$$= \$\mathbf{70}$$

2.2

- dollars to yuan, so multiply: 85×7.2

$$= \mathbf{612} \text{ yuan}$$

2.3

- $3 \times 4.75 = \$14.25$ and $2 \times 6.40 = \$12.80$

$$14.25 + 12.80 = \$\mathbf{27.05}$$

2.4

- yuan to dollars, so divide by the rate: $129.60 \div 7.2 = \$\mathbf{18}$

2.5

- tax $= 0.15 \times 240 = \$36$
- total $= 240 + 36 = \$\mathbf{276}$

3.1

(a)

- euros to dollars, so divide: $368 \div 0.92$

$$= \$\mathbf{400}$$

(b)

- compare \$400 with \$415

the camera at 368 euros is \$**15** cheaper

3.2

- normal pay $= 38 \times 16.50 = \$627.00$
- overtime hours $= 44 - 38 = 6$, so overtime pay $= 6 \times 24.75 = \$148.50$

$$627.00 + 148.50 = \$\mathbf{775.50}$$

3.3

- after commission: $500 \times 0.98 = \$490$
- $490 \times 7.2 =$ **3528** yuan

3.4

- cost per 100 g: $3.20 \div 5 = \$0.64$
- and $4.50 \div 7.5 = \$0.60$
- the **750 g pack** is better value

3.5

- taxed amount $= 31\,200 - 12\,500 = \$18\,700$; tax $= 0.2 \times 18\,700 = \$3740$
- after tax $= 31\,200 - 3740 = \$27\,460$ a year
- monthly $= 27\,460 \div 12 = \$\mathbf{2288.33}$