

- 1 In March 2011, the average temperature in Kiev was  $3^{\circ}\text{C}$ .  
In March 2012, the average temperature in Kiev was  $19^{\circ}\text{C}$  lower than in March 2011.

Write down the average temperature in Kiev in March 2012.

$$3 - 19 = -16$$

Answer .....  $-16$  .....  $^{\circ}\text{C}$  [1]

- 2 Michelle sells ice cream.  
The table shows how many of the different flavours she sells in one hour.

Flavour	Vanilla	Strawberry	Chocolate	Mango
Number sold	6	8	9	7

Michelle wants to show this information in a pie chart.

Calculate the sector angle for mango.

$$\frac{7}{6+8+9+7} \times 360^{\circ} = \frac{7}{30} \times 360^{\circ} = 84^{\circ}$$

Answer .....  $84^{\circ}$  ..... [2]

- 3 Chris changes \$1350 into euros (€) when €1 = \$1.313 .

Calculate how much he receives.

$$\begin{array}{r} \text{€}1 = \$1.313 \\ \times \$1350 \end{array}$$

$$1.313 \cdot x = 1 \cdot 1350$$

$$1.313 x = 1350$$

$$x = \frac{1350}{1.313}$$

$$x = 1028.179.741051\dots$$

$$x \approx 1030$$

Answer € .....  $1030$  ..... [2]

- 4 Factorise completely.

$$\begin{aligned} &15a^3 - 5ab \\ &= 5a(3a^2 - b) \end{aligned}$$

Answer .....  $5a(3a^2 - b)$  ..... [2]