For Examiner's Use

**1** Write the numbers in order of size with the **smallest** first.

$\sqrt{10}$ = 3.162277... 3.14 $\frac{22}{7}$ = 3.142857... $\pi$ = 3.141592...

*Answer* 3.14 < $\pi$ < $\frac{22}{7}$ < $\sqrt{10}$ [2]

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**2** Michel changed \$600 into pounds (£) when the exchange rate was £1 = \$2.40.
He later changed all the pounds back into dollars when the exchange rate was £1 = \$2.60.

How many dollars did he receive?

£1 = \$2.40
$x$ = \$600

$x = \frac{£1}{\$2.40} \times \$600$
= £250

£1 = \$2.60
£250 = $y$

$y = \frac{\$2.60}{£1} \times £250$
= \$650

*Answer* \$ 650 [2]

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**3** $p$ is the largest prime number between 50 and 100.
$q$ is the smallest prime number between 50 and 100.

Calculate the value of $p - q$.

p = 97
q = 53

p − q = 97 − 53
= 44

*Answer* 44 [2]

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**4** A person in a car, travelling at 108 kilometres per hour, takes 1 second to go past a building on the side of the road.

Calculate the length of the building in metres.

108 km/h = $\frac{108 \times 1000}{1 \times 3600}$ m/s
= 30 m/s

Distance = Speed × Time
= 30 m/s × 1 s
= 30 m

*Answer* 30 m [2]

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