CIE-MATHS.ESY.ES

For Examiner's Use

1 During one week in April, in Quebec, the daily minimum temperatures were

−5°C, −1°C, 3°C, 2°C, −2°C, 0°C, 6°C.

Write down

(a) the lowest of these temperatures,

Answer(a) -5 °C [1]

(b) the range of these temperatures.

$6 - (-5) = 6 + 5$
$= 11$

Answer(b) 11 °C [1]

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2 $\sqrt{23}$ $= 4.7958...$ 48% $= 0.48$ 4.80 $\frac{53}{11}$ $= 4.8181...$

Write the numbers in order of size with the **largest** first.

Answer $\frac{53}{11}$ > 4.80 > $\sqrt{23}$ > 48% [2]

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3 Ricardo changed $600 into pounds (£) when the exchange rate was $1 = £0.60.
He later changed all the pounds back into dollars when the exchange rate was $1 = £0.72.

How many dollars did he receive?

$1 = £0.60$
$600 = x$
$x = \frac{£0.60}{1} \times 600$
$= £360$

$1 = £0.72$
$y = £360$
$y = \frac{1}{£0.72} \times £360$
$= 500$

Answer $ 500 [2]

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4 The maximum speed of a car is 252 km/h.

Change this speed into metres per second.

$252 \text{ km/h} = \frac{252 \times 1000 \text{ m}}{1 \times 3600 \text{ s}}$
$= 70 \text{ m/s}$

Answer 70 m/s [2]

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