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## Level 1/Level 2 Certificate USE OF MATHEMATICS

# F

Foundation Level

June 2016

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## Preliminary Material

### Data Sheet

To be opened and issued to candidates between  
Monday 2 May 2016 and Monday 16 May 2016

#### REMINDER TO CANDIDATES

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## Camping

The cost of camping in a tent or caravan depends on the time of year and the facilities that the campsite has to offer.

Some campsites are just fields without any facilities. Other sites have toilets, showers and electricity.

The cost of camping at a campsite in Cornwall is shown.

### Holiday Park, Cornwall

(Open April 1<sup>st</sup> to October 31<sup>st</sup>)

Two people and car with caravan or tent. Electricity and free showers included.

	<u>Cost per night</u>
April 1 <sup>st</sup> – May 22 <sup>nd</sup> September 15 <sup>th</sup> – October 31 <sup>st</sup>	£12.50
May 23 <sup>rd</sup> – July 18 <sup>th</sup> September 1 <sup>st</sup> – September 14 <sup>th</sup>	£14.00
July 19 <sup>th</sup> – August 31 <sup>st</sup>	£20.00
Additional adults	£3.00 each
Children	£2.00 each
Dogs	£1.50 each

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## Olympic diving



Some diving competitions involve diving from 5-metre or 10-metre platforms.

The **pike position** and the **tuck position** are positions that can be held during part of a dive.

Some dives are more difficult than other dives, so dives are graded by how difficult they are. This is called the **degree of difficulty** for the dive.

The table shows the degree of difficulty for five dives, two platform heights and for the pike and the tuck dive positions.

Dive	5-metre platform		10-metre platform	
	Pike	Tuck	Pike	Tuck
Forward 1 somersault	1.5	1.4	1.7	1.6
Forward 2 somersaults	2.3	2.2	2.2	2.1
Back 1 somersault	1.6	1.5	1.8	1.7
Back $2\frac{1}{2}$ somersaults	3.2	3.0	2.9	2.7
Reverse 3 somersaults	3.4	3.1	3.2	2.9

Divers are awarded marks for a dive by a number of judges, but not all the marks count towards the score for the dive.

When seven judges award marks, the score for the dive is calculated in the following way:

1. The highest and lowest marks are ignored.
2. The remaining five marks are added together.
3. The sum of these five marks is multiplied by the degree of difficulty for the dive.

The men's 10-metre platform competition consists of six dives. The gold medal at the 2012 Olympic Games in London was won by David Boudia of the United States.

Here are his six scores:

Dive 1: 97.20

Dive 2: 86.40

Dive 3: 99.90

Dive 4: 90.75

Dive 5: 91.80

Dive 6: 102.60

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## House sales and house prices



When a person wants to sell their house they may use an estate agent to sell it for them. Estate agents charge for this service. There are also other costs when selling a house; for example, solicitor's fees and the cost of the house's Energy Performance Certificate.

The estate agent's fee is usually a percentage of the sale price. Solicitor's fees and the cost of the house's Energy Performance Certificate are often set amounts.

In June 2013, the average price of a house in England and Wales was £162 000

**Theme park ride**

Theme park rides are designed to thrill and excite those who ride on them.

The 'Apocalypse' ride at Drayton Manor Theme Park is more than 50 metres high.

The ride falls vertically from a height of more than 50 metres and reaches a speed of approximately 80 kilometres per hour before it is slowed and stopped by powerful magnetic brakes.



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**Tents**

Tents are available in a number of shapes and sizes. The pictures show three different types of tent.



Ridge tent



Teepee



Bell tent

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