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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | The conversion graph on the right can be used to convert between miles and kilometres. Use it to help you complete the following table.

|  |  |  |  |
| --- | --- | --- | --- |
| **FROM** | **TO** | **MILES** | **KM** |
| York | Middlesborough | 49 |  |
| Chichester | Brighton | 31 |  |
| Norwich | King’s Lynn |  | 69 |
| Leeds | Manchester |  | 64 |
| Hereford | Worcester | 25 |  |
| Liverpool | Chester |  | 29 |
| Dundee | Perth | 20 |  |
| Truro | Land’s End |  | 59 |

 |  0 10 20 30 40 50 60 70 80 90706050403020100**KILOMETRES****MILES** |
| 2. | Plot a conversion graph using the following table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TONS** | 0 | 1 | 8 | *2 centimetres to 1 (imperial) ton* |
| **KILOGRAMS** | 0 | 1016 | 8128 | *2 centimetres to 1000 kilograms* |

1. The heaviest Christmas pudding ever made weighed 3¼ tons. What was its weight in kg?
2. The world’s largest ice-lolly was one of 5600 kg. What was its weight in tons?
3. The largest sherry trifle on record was one weighing 3130 kg. How much did it weigh in tons?
4. The heaviest doughnut ever made weighed 12/3 tons. How heavy was it in kg?
 |
| 3. | Plot a conversion graph using this table:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PINTS** | 0 | 3500 | 17 500 | *1 centimetre to 1000 pints* |
| **LITRES** | 0 | 2000 | 10 000 | *1 centimetre to 1000 litres* |

1. The largest milkshake was a chocolate one of 7200 litres. How many pints is this?
2. The largest cocktail on record was a “Hurricane” consisting of 6000 litres. How many pint glasses would you need?
3. The largest bottle in the world can hold 1100 pints. How many litres is this?
4. The world’s largest jelly was a watermelon flavoured one of 60 000 pints. **Without extending your graph** can you find out how many litres this is?
 |
| 4. | Use this table to construct a conversion graph.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ° Celsius | 0 | 30 | 100 | *Use a sensible scale of your choice* |
| ° Fahrenheit | 32 | 86 | 212 |

1. Benzine freezes at 6°C. What is this in °F?
2. Acetone boils at 56°C. What is this in °F?
3. Acetic acid (vinegar) melts at 61°F. What is this in °C?
4. Methanol boils at 149°F. What is this in °C?
5. Chloroform boils at 61°C. What is this in °F?
 |