**Game of Cones – Season 4 – Measures - Answers**

The city of Easteros, situated on the coast of Wessos, is the scene of a bitter ice cream feud between two companies:

Lark Ices (run by Edward Lark)

Stannister Dairy (run by Bob Stannister)

Both men, through their companies, are trying to win control of the frozen dairy market in Easteros, and will stop at nothing to achieve their goal!

The saga has become known as the “Games of Cones”.

*Weighting In Vain*

Lark Ices have always used metric measures, but the new labelling machine has misprinted all the new labels in the warehouse.

Can you convert all the labels to the units required?

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Printed Label** | **Measure Required** | **Corrected Label** |
| Cornets | 0.752kg | Grams | **752g** |
| Flakes | 3210g | Kilograms | **3.21kg** |
| Hundreds & Thousands | 57g | Milligrams | **57000mg** |
| Coconut Flakes | 15.3g | Milligrams | **15300mg** |
| Vanilla | 2670kg | Tonnes | **2.67t** |
| Chocolate | 876kg | Tonnes | **0.876t** |
| Strawberry | 0.032t | Kilograms | **32kg** |
| Mint Choc Chip | 13450g | Kilograms | **13.45kg** |

*A Long Weight*

Lark Ices are trying to decide which vans will go under various low bridges around Easteros. The vans can’t be within 15cm of the bridge due to occasional advertising on the roof. Unfortunately all the units are mixed up.

Can you decide which vans will fit under the bridges listed?

|  |  |  |  |
| --- | --- | --- | --- |
| **Van** | **Height of Van** | **Height of Bridge** | **Yes or No** |
| Van 1 | 333cm | 3.47m | **No** |
| Van 2 | 2672mm | 2.85m | **Yes** |
| Van 3 | 0.0041km | 426cm | **Yes** |
| Van 4 | 4378mm | 450.1cm | **No** |
| Van 5 | 0.00324km | 3410mm | **Yes** |

*Sit and Weight*

Lark Ices have decided to produce their own chcoclate ice cream and but their recipe books are all in the wrong units.

Can you convert each ingredient to the unit asked for?

|  |  |  |  |
| --- | --- | --- | --- |
| **Ingredient** | **Amount** | **Unit Required** | **Corrected Amount** |
| Chocolate | 1100000mg | Kilograms | **1.1kg** |
| Milk | 3200ml | Litres | **3.2l** |
| Sugar | 0.00085t | Grams | **850g** |
| Egg Yolks | 30 | N/A | 30 |
| Cream | 275cl | Litres | **275l** |

*(Weighting For) The Ghost Train*

Stannister Dairy, unlike their counterparts Lark Ices, always use imperial units. Ironically both companies order the same items, although different amounts, from the same supplier. The supplier has forgotten who has metric and who has imperial units and got them the wrong way around.

Can you convert them? *(Choose an appropriate measure for each)*

|  |  |  |
| --- | --- | --- |
| **Stannister Dairy** |  | **Lark Ices** |
| *Item* | *Amount* | *Conversion* |  | *Item* | *Amount* | *Conversion* |
| Cornets | 2kg | **4.4lb** |  | Cornets | 7lbs | **3.2kg** |
| Flakes | 900 grams | **2lb** |  | Flakes | 1lb 4oz | **568g** |
| Hundreds & Thousands | 200 grams | **7oz** |  | Hundreds & Thousands | 8oz | **227g** |
| Coconut Flakes | 100 grams | **3.5oz** |  | Coconut Flakes | 3oz | **85g** |
| Chocolate Sauce | 1.5 litres | **3 pints** |  | Chocolate Sauce | 5 pints | **2.845l** |

*Weighting For A Star To Fall*

Lark Ices and Stannister Dairy are always competing. Both claim that they travel the furthest and sell the most produce.

Who is right? Compare the units to decide.

|  |  |  |
| --- | --- | --- |
| **Stannister Dairy** |  | **Lark Ices** |
| *Item* | *Amount* | *Conversion* |  | *Item* | *Amount* | *Conversion* |
| Distance Travelled | 56 miles | **89.6km** |  | Distance Travelled | 86km | **53.75 miles** |
| Ice Cream Sold | 8 gallons | **36.4 litres** |  | Ice Cream Sold | 38 litres | **8.3 gallons** |
| Flakes Sold | 2st 3lbs | **14.1kg** |  | Flakes Sold | 14.3kg | **2st 3.5lbs** |