



## FACTSHEET 6

# The John Lewis Numbers Game

### I. Measuring Up At John Lewis

Measurements are numbers that give us information about the world around us. They help us to build houses, design machines, cook meals and get to school on time.

At John Lewis and Waitrose Food Stores, measurements help people to buy and sell things.

The metric system of measurement was invented in France and is now the standard system in most of the world, including Britain. The basic measure of the length is the metre (m), about the length of a very long stride by an adult.

Until the 1970s, the imperial system was more typical in Britain. Its measures of lengths were based on the yard (yd). There are three feet (ft) in one yard, and twelve inches (in) in one foot. The imperial weight measures are the pound (lb) and ounces (oz). There are 16 ounces in one pound.

Calculations with the metric system are much easier because all measures are found by multiplying or dividing by tens, hundreds and thousands. For example, one metre (m) equals 100 centimetres (cm).

A conversion scale can help you change from the metric system to the imperial system, or vice versa. There are 2.54 cm in one inch, so we say that 2.54 is the conversion factor for changing inches to centimeters.

### Now it's time to do some maths!

We've given you a few clues, but you will need to look for conversion scales in dictionaries, books or on the internet to answer some of the questions.

1. An elderly John Lewis customer asks for a pair of trousers with a 36 inch waist. How much is that in centimetres?

2. A small bar of chocolate weighs about 2 ounces. How many bars weigh 1 pound?

3. Ten apples weigh about one kilogram – how many grams is that?

4. An average wardrobe is approximately 2 metres high – how many centimetres is that?

5. In the imperial system days, Waitrose used to sell one pound bags of sugar. How much is that in grams?

6. Before petrol was sold in litres it was sold in gallons. How many litres are there in two gallons?

7. Before CDs became popular, people used to buy 12-inch vinyl records called LPs (long players). How many centimetres is that?

8. The entrance to John Lewis in Oxford Street is 13 yards wide. How wide is that in metres?

### 2. Money! Money! Money! Funny Money Money!

The money in use in a country is called its 'currency'.

Different countries have different currencies. In Britain the currency is the pound, in Europe it's the euro, in America it's the dollar, and in Japan it's the yen.

International banks must agree a value, called the 'rate of exchange', for different currencies.

For example, on a certain day £ 1 may be worth \$ 1.84. The next day it could be worth slightly more or less.

*The average rates of exchange so far this year have been:*

One pound = 1.84 dollars

One pound = 201 Japanese yen

One pound = 1.50 Euros

Very often foreign customers ask John Lewis staff for the approximate price of an item in their own currency. So, a pair of white sandals that cost £ 30 would cost approximately 55 dollars, 6,030 yen, or 45 euros.

*This is how a John Lewis seller would work that out:*

£ 30 x 1.84 US dollars = 55.2 dollars

£ 30 x 201 Japanese yen = 6,030 yen

£ 30 x 1.50 euros = 45 euros

*Using the average rate of exchanges above, how much would these items be in a) US dollars, b) Japanese yen, and c) Euros?*

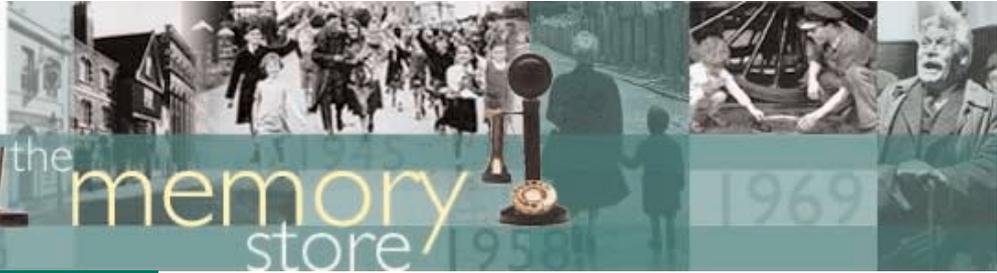
1. Charlie and the Chocolate Factory Board Game £ 15

2. Digital Telephone and Answering Machine £ 49

3. Girls' Straw Bag £ 30

4. Crazy Babes Hair Styling Kit £ 20

5. Digital Camera £ 399



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## The John Lewis Numbers Game (continued)

### 3. Football Tables

A table is a list of numbers in rows and columns. It can show information that has been collected in a survey, the results of a science experiment or the scores in a game.

A football league table shows the games won, drawn and lost by the different teams. In the John Lewis London Soccer League, the teams score 3 points for a win, 1 point for a draw and 0 points for a loss.

Angie Gibson's Oxford Street team were second in the league with three games left to play (see the table below).

Now use the results from the final games of the season to write out the final table and find out if Angie's team won the London Soccer League?

Team	Played	Won	Drawn	Lost	Points
John Lewis Brent Cross	10	8	1	1	25
John Lewis Oxford Street	9	8	0	1	24
Waitrose Kings Road	11	6	3	2	21
John Lewis Kingston	10	5	2	3	17
Peter Jones	10	5	4	16	

**Results**

John Lewis Brent Cross 3 Peter Jones 0

Waitrose Kings Road 1 John Lewis Kingston 1

John Lewis Oxford Street 6 Peter Jones 2

John Lewis Oxford Street 2 John Lewis Kingston 0

John Lewis Brent Cross 1 John Lewis Oxford Street 3

### 4. Partner percentages

One of the great things about working at John Lewis is that as a Partner, you get 25% discount on products from any John Lewis store, and 12% discount on food and drink from Waitrose Food Stores.

A Hotpoint Fridge Freezer that normally costs £ 229 would only cost a John Lewis Partner £ 171.75.

That's £ 229 – 25% (£ 57.25) = £ 171.75

A bag of strawberries that would normally cost £ 1.99 would only cost a John Lewis Partner £ 1.75

That's £ 2.10 – 12% (£ 0.252\*\*) = £ 1.85 (\*\*remember to round the percentage figure to the nearest whole number in pounds or pence).

Angie Gibson works at John Lewis, Oxford Street. How much would she pay for these products?

1. Pink handbag £ 29.95

2. Italian pasta sauce £ 1.19

3. Bottle (2 litres) of Cream Soda £ 1.28

4. Faded denim jeans £ 35

5. Lamb kebabs with cheese and olives £ 4.49

6. Bottle of red wine from France £ 7.49

7. Home Cinema System £ 599

8. Black sports bra £ 22