

Charity Shop Maths - 1



You are the manager of a charity shop.

Multiplication

There are piles of goods in the shop, listed below. Fill in the table with the total number of items and the total price (if all the items are sold).

Item	Price (each)	Number of piles	Number of items in each pile	Total number	Total price
Records	£1	13	40		
CDs	£3	20	45		
Jigsaws	£2	5	24		
Computer games	£5	11	26		
Knives & Forks	£0.90	18	25 pairs		
Blue plates	£0.50	14	12		
Bone china cups	£0.80	15	4		
Hats	£1.20	12	15		

Division

Division is a quick way of finding out how many times you can take away.

If you have a pile of 10 cups, you can take away 2 cups 5 times before you run out.

There is a huge pile of stock in the back room.

You have to sort the stock into groups so the items appear refreshing and exciting to the customers.

Item	Total number	How many stacks?...	Answer
Plates	260	How many stacks of 20 can you make?	___ stacks
Socks	84 pairs	How many baskets with 6 pairs?	___ baskets
Books	450	How many shelves of 45 books?	___ shelves
Clocks	180	How many shelves of 30 clocks?	___ shelves
Chocolates	640	How many piles of 40?	___ piles
Towels	400	How many piles of 20?	___ piles

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Answers

Multiplication

Note - this is also good opportunity to discuss shortcuts and quick mental methods. E.g. 20×45 (double 45 then add a zero), 5×24 (multiply 24 by 10 and then halve the answer), 11×26 (multiply 26 by 10 then add on another 26), 15×4 (double 15 then double the answer), etc.

Item	Price (each)	Number of piles	Number of items in each pile	Total number	Total price
Records	£1	13	40	$13 \times 40 = 520$	$520 \times £1 = £520$
CDs	£3	20	45	$20 \times 45 = 900$	$900 \times £3 = £2700$
Jigsaws	£2	5	24	$5 \times 24 = 120$	$120 \times £2 = £240$
Computer games	£5	11	26	$11 \times 26 = 286$	$286 \times £5 = £1430$
Knives & Forks	£0.90	18	25 pairs	$18 \times 25 \times 2 = 900$	$900 \times 90p = £810$
Blue plates	£0.50	14	12	$14 \times 12 = 168$	$168 \times 50p = £84$
Bone china cups	£0.80	15	4	$15 \times 4 = 60$	$60 \times 80p = £48$
Hats	£1.20	12	15	$12 \times 15 = 180$	$180 \times £1.20 = £216$

Division

Again this makes a good opportunity to discuss shortcuts and quick mental methods. E.g. $260 \div 20$ (divide 260 by 2 and then by 10), $180 \div 30$ (is the same as $18 \div 3$), etc.

Item	Total number	How many stacks?	Answer
Plates	260	How many stacks of 20 can you make?	13 stacks
Socks	84 pairs	How many baskets with 6 pairs?	14 baskets
Books	450	How many shelves of 45 books?	10 shelves
Clocks	180	How many shelves of 30 clocks?	6 shelves
Chocolates	640	How many piles of 40?	16 piles
Towels	400	How many piles of 20?	20 piles