

Maths Star

Long Multiplication

This is one of the “important” topics, not just for the 11+, but for school work in general. Don't forget that there are a few methods you can use. Take a look at the “Long Multiplication Methods” worksheet to remind yourself before doing the questions below.

In this answer sheet, we will use the grid method for some questions and the traditional method for others, but you can use whatever you prefer!

1) 172 $\times 34$ <hr/> $(172 \times 4) \quad 688$ $(172 \times 30) \quad 5160$ <hr/> 5848	2) 546 $\times 28$ <hr/> $(546 \times 8) \quad 4368$ $(546 \times 20) \quad 10920$ <hr/> 15288	3) 921 $\times 17$ <hr/> $(921 \times 7) \quad 6447$ $(921 \times 10) \quad 9210$ <hr/> 15657	4) 628 $\times 42$ <hr/> $(628 \times 2) \quad 1256$ $(628 \times 40) \quad 25120$ <hr/> 26376
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Stretch your brain

- 1) Maggie has a farm. She has 354 cows and they each produce 25 litres of milk every day. How many litres of milk does Maggie get in one day on the farm?

X	300	50	4
20	6000	1000	80
5	1500	250	20

$6000 + 1500 + 1000 + 250 + 80 + 20 = 8850$

- 2) Martin has a plane. He makes 15 flights every month. Each flight is 124 miles long. How many miles does Martin fly each month?

X	100	20	4
10	1000	200	40
5	500	100	20

$1000 + 500 + 200 + 100 + 40 + 20 = 1860$

- 3) In Simpson Street, there are 32 houses. Each house has a brick wall around the garden, made up of 209 bricks. How many bricks are there in Simpson Street's brick walls?

X	200	0	9
30	6000	0	270
2	400	0	18

$6000 + 400 + 270 + 18 = 6688$