

28/01/21

Maths Tasks

Please choose a suitable colour challenge to complete.

You will need to copy out the calculations neatly, remembering to line up the digits into their place value columns.

Take a look at the Maths PowerPoint on the Year 5 Blog for a reminder of the multiplication steps if needed.

Yellow Challenge –

Multiply 3 digit x 1 digit (including exchanging)

No exchanging {

- 134 x 2 = 268
- 121 x 4 = 484
- 123 x 3 = 369
- 242 x 2 = 484
- 125 x 3 = 375
- 224 x 3 = 672
- 216 x 4 = 864
- 252 x 3 = 756
- 172 x 4 = 688

Blue Challenge –

Multiply 4 digit x 1 digit (One exchange)

No exchanging {

- 1132 x 3 = 3396
- 2321 x 3 = 6963
- 3442 x 2 = 6884
- 1328 x 2 = 2656
- 1522 x 3 = 4566
- 2126 x 3 = 6378
- 3218 x 4 = 12872
- 4351 x 2 = 8702
- 3217 x 3 = 9651

Green Challenge –

Multiply 4 digit x 1 digit (multiple exchanges)

- 1285 x 2 = 2570
- 1614 x 3 = 4842
- 1915 x 4 = 7660
- 2426 x 3 = 7278
- 2471 x 4 = 9884
- 2708 x 2 = 5416
- 3159 x 3 = 9477
- 1566 x 3 = 4698
- 3780 x 4 = 15120

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Maths Tasks – White Challenge

Solve these problems using the short, formal method of multiplication.

Remember to read the problem carefully, identify the important information and record your answer in full detail.

1. An arena has 4,652 seats. All three concerts by a band there are sold out. How many tickets have been sold?
 $4,652 \times 3 = 13,956$. 13,956 tickets have been sold.
2. A factory canteen prepares 1,358 meals every day. How many meals does it prepare in five days?
 $1,358 \times 5 = 6,790$. 6,790 meals are prepared in five days.
3. There are 8 biscuits in a packet. How many biscuits are there in 3,264 packets?
 $3,264 \times 8 = 26,112$. There are 26,112 biscuits in 3,264 packets.
4. A plane flies 1,468km. It's next flight is six times longer. How far is the flight?
 $1,468 \times 6 = 8,808$. The flight is 8,808km.
5. A clothing manufacturer makes £6 profit on every coat sold. How much profit is made if 5,373 coats are sold?
 $5,373 \times 6 = 32,238$. £32,238 profit is made.

	Th	H	T	O
	1	4	3	2
x				4
	4	16	12	8

$$1,432 \times 4 = 416,128$$

Alex calculated the answer to $1,432 \times 4$. Her answer is shown to the left.

Can you explain clearly what Alex has done wrong and then demonstrate using the same method, how to find the correct answer?

Alex has not exchanged when she has got 10 or more in the tens and hundreds column.

The correct answer is 5,728.

Complete the missing digits in the calculation.

	4	3	7	2
x				6
	2	6	2	3
	2	4	1	

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Maths Tasks – White+ Extension

Can you work out the missing numbers using the clues?

$$\begin{array}{r} \\ \\ \times \\ \hline 1 \\ \hline \end{array}$$

- The 4 digits being multiplied by 5 are consecutive numbers.
- The first 2 digits of the product are the same.
- The fourth and fifth digits of the answer add to make the third.

2. Louisa, Alfie and Rehan are playing a game. They are multiplying their 4-digit numbers by 6 to see whose answer is closest to 10,000. They each give clues for their 4-digit numbers.



Louisa

The digit sum of my number is 10. My number has a 0 in the ones column and each digit is different.

All of the digits in my number are even, and one digit is 0. My digit sum is less than Louisa's.



Alfie



Rehan

My number has the highest digit sum. Two of my digits are 0s.

Investigate what each of their numbers could be and who could have won the game.

Various answers, for example: Louisa could have $1,270 \times 6 = 7,620$; Alfie could have $2,220 \times 6 = 13,121$; Rehan could have $5,600 \times 6 = 33,600$. In this case, Alfie would win.