14.1.2021 Quick Maths

A

- 50 - 27 =
- 8 x 9 =
- Value of 7 in 1718
- Find all factor pairs of 42

7m | Area = | 8m

B

- 24 x 6 =
- 5 x 65 x 2 =
- 1320 ÷ 11 =
- Find the factors of 96

4m | Perimeter = | 27m

Challenge

Use the most efficient multiplication method to calculate:

1. 28 x 7 =   3. 16 x 8 =
2. 89 x 9 =   4. 37 x 6 =

Explain your reasoning.

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Flashback 4   Year 4 | Week 2 | Day 3

1) Work out 26 × 5

2) Find the product of 12 and 10

3) Find 13 × 10

4) What is 8,000 + 120?

White Rose Maths

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What did we do yesterday?

True or False? — Written methods

34 × 6 can be represented like this

Hundreds	Tens	Ones
	●●●	●●●●
	●●●	●●●●
	●●●	●●●●
	●●●	●●●●
	●●●	●●●●
	●●●	●●●●

White Rose Maths

Which methods of efficient multiplication have we looked at?

Column Multiplication

Learning Objective:
Today I am learning to
- use a written method
of multiplication

Key Vocabulary
- column   - place value
- multiplication - product
- multiples   -
- exchanging

Success Criteria
I will be successful if I can
- multiply 2-digit numbers by
1-digit numbers
- multiply 3-digit numbers by
1-digit numbers
- develop my reasoning skills

WR Slides

Column Multiplication

You can multiply numbers together using a number of techniques. One written method that we will focus on is column multiplication. It looks like this...

```
      1 2
  x     6
      7 2
    1
```

Column Multiplication

The first step is to place your digits in the correct columns.

```
      T O
      1 2
  x     4
      4 8
```

Then, like column addition, we begin with the Ones column. We multiply the Ones digits together (in this case, 2 x 4), writing the answer in the Ones column inbetween the lines. Next, we multiply the Tens by the Ones (1 x 4), writing the answer in the Tens column.

Written method

21 x 2 =

```
      2   1
  x       2
  _____

  _____
```

TENS | ONES

Written method

32 x 3 =

```
      3   2
  x       3
  _____

  _____
```

TENS | ONES

Written method

35 x 3 =

```
    3   5
x       3
_____

_____
```
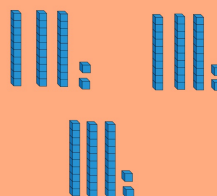
TENS | ONES

Column Multiplication   Please present like this.

```
1.      1  3        2.      2  4        3.      3  2
    x      2            x      2            x      3
    _____                _____            _____


4.      2  1        5.      1  1        6.      4  2
    x      2            x      7            x      2
    _____                _____            _____
```

Task

A
1. 13 x 2 =
2. 24 x 2 =
3. 32 x 3 =
4. 21 x 4 =
5. 11 x 7 =
6. 42 x 2 =

B
1. 12 x 3 =
2. 34 x 2 =
3. 23 x 3 =
4. 43 x 3 =
5. 27 x 4 =
6. 57 x 6 =

C
1. 127 x 3 =
2. 312 x 3 =
3. 487 x 4 =
4. 237 x 5 =
5. 81 x 9 =
6. 189 x 8 =

Attempt these questions at your level of confidence.

Challenge

True or False? Multiply 2-digits by 1-digit

Tommy has 8 boxes of cakes with 24 cakes in each box.
Eva has 4 boxes with 48 cakes in each box.

They have the same number of cakes.

Here are three incorrect multiplications.

T	O
6	1
×	5
3	5

	T	O
	2	6
×		4
8	2	4

T	O
7	4
×	7
4 9	8

Correct the multiplications.

Column Multiplication

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