January

12 Times tables

12 × 0	=	0
12 × 1	=	12
12 × 2	=	24
12 × 3	=	36
12 × 4	=	48
12 × 5	=	60
12 × 6	=	72
12 × 7	=	84
12 × 8	=	96
12 × 9	=	108
12 × 10	=	120
12 × 11	=	132
12 × 12	=	144

Whiteboards - Arithmetic Addition

1. ↻
$$44 + 83$$

2. ↻
$$5409 + 3079$$

3. ↻
$$0.09 + 0.01$$

4. ↻
$$408.7 + 5.898$$

Finished? Do response to marking

4:00

Arithmetic Answers

1. 127

2. 8488

3. 0.1

4. 414.598

What do you need to practice?
How confident were you with answering these questions?

05.01.21

LO: To multiply multiply 4 digits by 1 digit

Key words: multiply, formal method,multiplicand, multiplier

RESPONSE TO MARKING

5:00

Please watch following video for support with this lesson (click link and go to video)

Multiply 4-digits by 1-digit

MULTIPLY 4-DIGITS BY 1-DIGIT

10:18

https://whiterosemaths.com/homelearning/year-5/week-1-number-multiplication-division/

Complete the calculation.

Hundreds	Tens	Ones
100 100		1 1 1
100 100		1 1 1
100 100		1 1 1

	H	T	O
	2	0	3
×			3

Complete the calculation.

Thousands	Hundreds	Tens	Ones
1000		10 10	1 1 1
1000		10 10	1 1 1
1000		10 10	1 1 1

	Th	H	T	O
	1	0	2	3
×				3

Annie earns £1,325 per week.

How much would he earn in 4 weeks?

Thousands	Hundreds	Tens	Ones
1000	100 100 100	10 10	1 1 1 1 1
1000	100 100 100	10 10	1 1 1 1 1
1000	100 100 100	10 10	1 1 1 1 1
1000	100 100 100	10 10	1 1 1 1 1

	Th	H	T	O
	1	3	2	5
×				4

13

TASKs

Task 1 Complete the questions on this presentation

Task 2 complete the worksheet Tuesday Worksheet, you decide where you start. Ensure you challenge yourself.

Once finished, do the thinking deeper questions on the next slides.

Mark your work once finished. Remember do not cheat. You will not learn that way.

1 Complete the sentences to describe the multiplication.

Th	H	T	O
1000 1000	100 100	10	1 1 1
1000 1000	100 100	10	1 1 1
1000 1000	100 100	10	1 1 1

There are ☐ ones altogether.

There are ☐ tens altogether.

There are ☐ hundreds altogether.

There are ☐ thousands altogether.

$2,213 \times 3 =$ ☐

2 Complete the multiplication.

Use the place value chart to help you.

Th	H	T	O

		2	1	0	2
×					4

3 A football stadium holds 2,214 people.

The stadium is full for 4 matches in a row.

What was the attendance for all 4 matches?

Th	H	T	O
1000 1000	100 100	10	1 1 / 1 1
1000 1000	100 100	10	1 1 / 1 1
1000 1000	100 100	10	1 1 / 1 1
1000 1000	100 100	10	1 1 / 1 1

		2	2	1	4
×					4

The attendance for all 4 matches was ☐

4 Nijah is calculating $2,430 \times 3$

She makes this place value chart to help her.

Th	H	T	O
	100 100	10 10 / 10 10	1 1 / 1
	100 100	10 10 / 10 10	1 1 / 1
	100 100	10 10 / 10 10	1 1 / 1

She gets the answer 729

What mistake has Nijah made?

_____

_____

What is the correct answer? ☐

5 Complete the multiplications.

a) $3,126 \times 3 =$ [ ] c) $4,132 \times 6 =$ [ ]

b) $4,812 \times 2 =$ [ ] d) $1,502 \times 5 =$ [ ]

6 Ron is working out $7,423 \times 0$

```
    7  4  2  3
×            0
─────────────
    7  4  2  3
```

The answer is 7,423

Do you agree with Ron? _____

Did Ron have to use a column method? Is there a quicker way?

7 Work out these multiplications.

$2,846 \times 2 =$ [ ]

$2,846 \times 4 =$ [ ]

$2,846 \times 8 =$ [ ]

What do you notice about the answers?

8

$248 \times 10 = 2,480$

Without using the formal method, how could you use this fact to calculate 248×9?

_____

_____

Check your answer using the formal method.

Which method was easier?

9 Use each digit card once to write a multiplication.

| 1 | 2 | 3 | 4 | 5 |

How many different products can you find?

_____

_____

What is the closest product to 8,000? [ ]

Multiply 4-digits by 1-digit

1 Complete the sentences to describe the multiplication.

Th	H	T	O
1,000 1,000	100 100	10	1 1 1
1,000 1,000	100 100	10	1 1 1
1,000 1,000	100 100	10	1 1 1

There are [9] ones altogether.

There are [3] tens altogether.

There are [6] hundreds altogether.

There are [6] thousands altogether.

$2,213 \times 3 =$ [6,639]

2 Complete the multiplication.

Use the place value chart to help you.

Th	H	T	O
OO	O		OO
OO	O		OO
OO	O		OO
OO	O		OO

		2	1	0	2
×					4
		8	4	0	8

3 A football stadium holds 2,214 people.

The stadium is full for 4 matches in a row.

What was the attendance for all 4 matches?

Th	H	T	O
1,000 1,000	100 100	10	1 1 / 1 1
1,000 1,000	100 100	10	1 1 / 1 1
1,000 1,000	100 100	10	1 1 / 1 1
1,000 1,000	100 100	10	1 1 / 1 1

		2	2	1	4
×					4
		8	8	5	6
				1	

The attendance for all 4 matches was [8,856]

4 Nijah is calculating $2,430 \times 3$

She makes this place value chart to help her.

Th	H	T	O
	100 100	10 10 / 10 10	1 1 / 1
	100 100	10 10 / 10	1 1 / 1
	100 100	10 10 / 10 10	1 1 / 1

She gets the answer 729

What mistake has Nijah made?

She hasn't put her counters in the correct columns.

What is the correct answer? [7,290]

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5 Complete the multiplications.

a) $3{,}126 \times 3 =$ 9,378

c) $4{,}132 \times 6 =$ 24,792

b) $4{,}812 \times 2 =$ 9,624

d) $1{,}502 \times 5 =$ 7,510

6 Ron is working out $7{,}423 \times 0$

$$\begin{array}{r} 7\ 4\ 2\ 3 \\ \times \qquad\quad 0 \\ \hline 7\ 4\ 2\ 3 \end{array}$$

The answer is 7,423

Do you agree with Ron? No

Did Ron have to use a column method? Is there a quicker way?

7 Work out these multiplications.

$2{,}846 \times 2 =$ 5,692

$2{,}846 \times 4 =$ 11,384

$2{,}846 \times 8 =$ 22,768

8

$$248 \times 10 = 2{,}480$$

Without using the formal method, how could you use this fact to calculate 248×9?

$248 \times 9 = 248 \times 10 - 248 \times 1 = 2{,}480 - 248, = 2{,}232$

Check your answer using the formal method.

$$\begin{array}{r} 2\ 4\ 8 \\ \times \qquad 9 \\ \hline 2\ 2\ 3\ 2 \\ \quad 4\ \ 7 \end{array}$$

Which method was easier?

9 Use each digit card once to write a multiplication.

| 1 | 2 | 3 | 4 | 5 |

How many different products can you find?

Various answers.

What is the closest product to 8,000? 8,270

8804
× 2
17608
1

5671
× 5
28355
3 3

5419
× 3
16257
1 2

3567
× 4
14268
2 2 2

6273
× 2
12546
1

5903
× 5
29515
4 1

Thinking Deeper

Use your understanding of multiplication to fill in the missing digits. Challenge 1.

Online games to play to support lesson

https://www.splashlearn.com/math-skills/fourth-grade/multiplication/4-digit-x-1-digit-numbers-up-to-4-000