Y5 - Revision
Multiplication and Division

1.

Complete the number track.

0	6				30				54	

2.

List all the multiples of 2 up to 20

_____

List all the multiples of 4 up to 20

_____

What do you notice about the multiples of 2 and 4?

Is the number 47 a multiple of 4? _____

Explain how you know.

_____

_____

Circle all the multiples of 3

23   6   13   18   21   32

The table shows four more multiples of 3

Multiple of 3	75	126	432	9,735
Sum of the digits				

What do you notice about the sum of the digits in each number?

_____

_____

3.

Here is part of a hundred square.

11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

a) Colour the multiples of 3

b) Draw a circle around all the multiples of 2

c) Some numbers have been coloured **and** circled.

What do you notice about these numbers?

4.
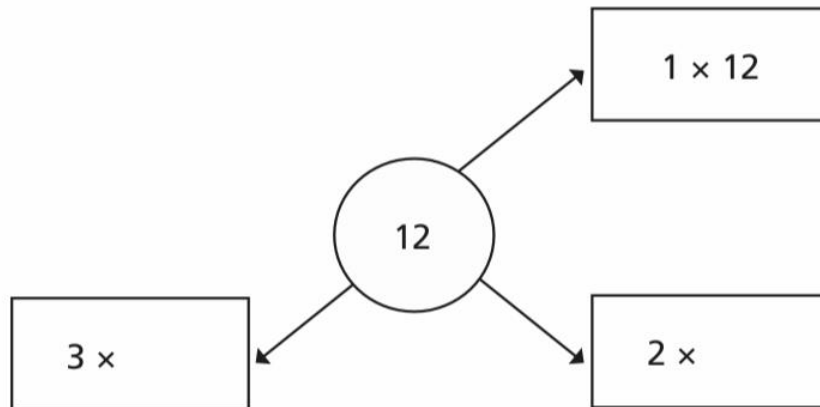
Scott's age is a multiple of 8 and 12

His age is one away from a multiple of 7

He is younger than 50 years old.

How old is Scott?

5.

Complete the diagram to show the pairs of numbers that multiply to make 12

```
                                    ┌──────────────┐
                                    │              │
                                 ↗  │    1 × 12    │
                                    │              │
                                    └──────────────┘
                      ╭────────╮
                      │        │
                      │   12   │
                      │        │
                      ╰────────╯
   ┌──────────────┐  ↙          ↘  ┌──────────────┐
   │              │                 │              │
   │     3 ×      │                 │     2 ×      │
   │              │                 │              │
   └──────────────┘                 └──────────────┘
```

List all the factors of 12

_____

6.

Draw a similar diagram to show the pairs of numbers that multiply to make 24

```
        ╭────────╮
        │        │
        │   24   │
        │        │
        ╰────────╯
```

List all the factors of 24

_____

7.

Circle the factors of 30

5   15   25   3   30   4   2   12   60   0

These numbers are all factors of a 2-digit number.

1   3   5   9

What could the number be?

8.

A prime number has two factors: 1 and itself.

List the prime numbers up to 20

_____

Is 25 a prime number? _____

How do you know?

_____

_____

9.

Whitney is working out a calculation.

$$8 \times 8 = 16$$

What mistake has Whitney made?

_____

_____

10.

Complete the statements.

a) $6^2 =$ ☐

b) $12^2 =$ ☐

c) ☐ $= 9^2$

d) $0^2 =$ ☐

e) ☐$^2 = 100$

f) $64 =$ ☐^{2}

11.

Complete the table of cube numbers.

2^3	2 × 2 × 2	8
3^3	3 × 3 × 3	
4^3	4 × 4 × 4	

What would the next cube number in the table be?

$\boxed{}^3 = \boxed{} \times \boxed{} \times \boxed{} = \boxed{}$

12.

Match the cube numbers to the calculations.

One has been done for you.

4^3 4 × 2

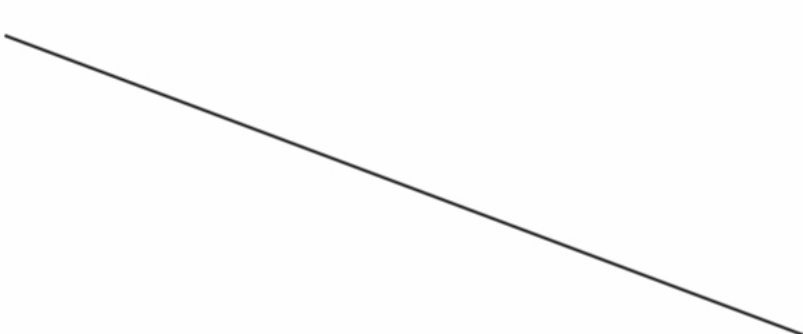5^3 9 × 3

2^3 16 × 4

3^3 25 × 5

13.

Complete the multiplications.

a)

Th	H	T	O
			7

$7 \times 10 =$ ☐

b)

Th	H	T	O
		3	9

$39 \times 10 =$ ☐

c)

Th	H	T	O
	2	0	5

$205 \times 10 =$ ☐

d) What happens to the digits when you multiply by 10?

_____

_____

14.

Multiply each number by 100 and then by 1,000

HTh	TTh	Th	H	T	O
					9

$9 \times 100 =$ ☐

$9 \times 1,000 =$ ☐

HTh	TTh	Th	H	T	O
				1	6

$16 \times 100 =$ ☐

$16 \times 1,000 =$ ☐

HTh	TTh	Th	H	T	O
			2	4	5

$245 \times 100 =$ ☐

$245 \times 1,000 =$ ☐

15.

Write >, < or = to make the statements true.

a)   78 × 10 ◯ 78 × 100

b)   100 × 56 ◯ 65 × 100

c)   930 × 10 ◯ 100 × 93

d) 1,000 × 482 ◯ 482 × 100

16.

Mrs Hall owns a bookshop.

- In January, she sold 145 books.
- In February she sold 10 times as many books.
- In March she sold 10 times as many books as in February.

How many books did Mrs Hall sell in March?

Show your workings.

17.

Complete the division sentences.

a)

Th	H	T	O
		6	0

$60 \div 10 = \boxed{}$

b)

Th	H	T	O
	4	9	0

$490 \div 10 = \boxed{}$

c)

Th	H	T	O
1	4	9	0

$1,490 \div 10 = \boxed{}$

d) What happens to the digits when you divide a number by 10?

_____

_____

18.

Complete the divisions.

a)

HTh	TTh	Th	H	T	O
			9	0	0

$900 \div 100 = \boxed{}$

b)

HTh	TTh	Th	H	T	O
	1	6	0	0	0

$16,000 \div 100 = \boxed{}$

c)

HTh	TTh	Th	H	T	O
		9	0	0	0

$9,000 \div 1,000 = \boxed{}$

d)

HTh	TTh	Th	H	T	O
7	6	8	0	0	0

$768,000 \div 1,000 = \boxed{}$

19.

In 2019, 568,000 houses were built.

In 2018, 10 times fewer houses were built.

In 2017, 100 times fewer houses were built.

a) How many houses were built in 2018?

| | houses

20.

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 [ ] ones altogether.

There are [ ] tens altogether.

There are [ ] hundreds altogether.

There are [ ] thousands altogether.

2,213 × 3 = [ ]

21.

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

$$\begin{array}{r} 2\ 2\ 1\ 4 \\ \times\ 4 \\ \hline \\ \hline \end{array}$$

The attendance for all 4 matches was [ ]

22.

Use each digit card once to write a multiplication.

1	2	3	4	5

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

How many different products can you find?

_____

_____

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

23.

Complete the multiplications.

a)

		2	3	1
×			1	3
		6	9	3
	2	3	1	**0**

(231 × 3)

(231 × **10**)

b)

		5	1	2
×			2	4
	2$_2$	0	4	8
1$_1$	0	2	4	0

(☐ × ☐)

(☐ × ☐)

24.

Tommy is calculating 1,234 × 26

a) Complete his working out.

	1	2	3	4
×			2	6
	7$_1$	4$_2$	0$_2$	4
2	4	6	8	0

(☐ × ☐)

(☐ × ☐)

b) Fill in the grid to check Tommy's working is accurate.
You may use place value counters to help.

×	1,000	200	30	4
20				
6				

25.

A machine makes 2,734 boxes every hour.

The machine works for 3 hours each day.

a) How many boxes will it make in 12 days?

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┌──────────────────┐
│                  │
└──────────────────┘
```

26.

Circle the groups of 3 to help complete the sentences and calculation.

The first step has been done for you.

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

```
        1
    ┌─────────────
3 │ 3  9  3  8
```

There is ☐1☐ group of 3 thousands.

There are ☐ groups of 3 hundreds.

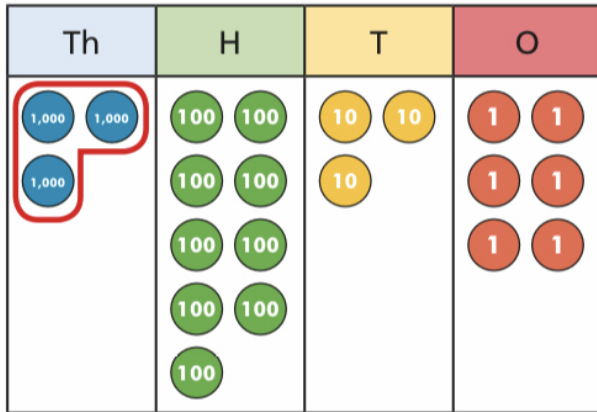There is ☐ group of 3 tens.

There are ☐ groups of 3 ones.

There are ☐ ones left over.

3,938 ÷ 3 = ☐ remainder ☐

27.

Circle the groups of 3 to help you complete the sentences and calculation.
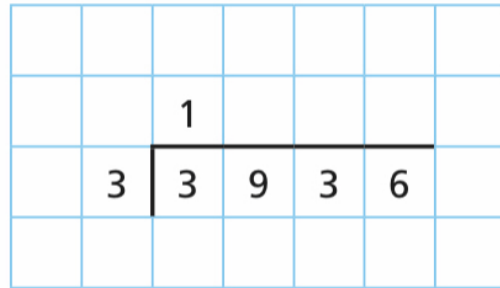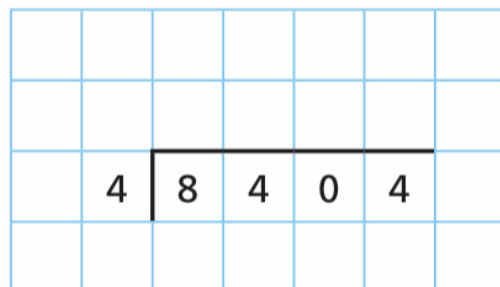
The first step has been done for you.

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

```
        1
   _____
3 | 3  9  3  6
```

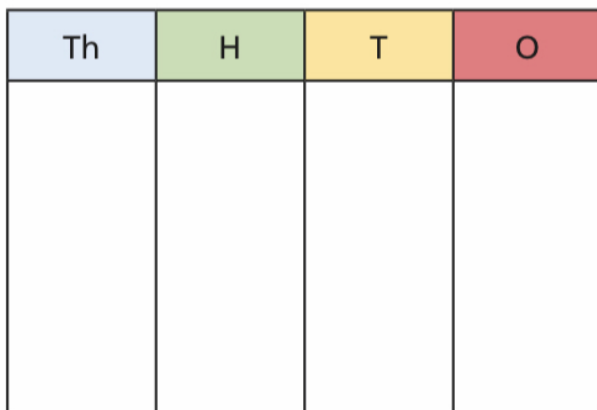There is ☐1☐ group of 3 thousands.

There are ☐ groups of 3 hundreds.

There is ☐ group of 3 tens.

There are ☐ groups of 3 ones.

$3{,}936 \div 3 =$ ☐

Use the place value chart to work out $8{,}404 \div 4$

Th	H	T	O

```
   _____
4 | 8  4  0  4
```

$8{,}404 \div 4 =$ ☐