

Year 5 Block 3 Unit: Multiplication and Division A

Key Vocabulary:

multiples	common multiples	factors	common factors
prime numbers	square numbers	cube numbers	multiply divide

What will I know by the end of this unit?

Multiples:
A multiple of a number is any number that is in its times table.

Multiples of 2:
2 4 6 8 10 12 14

Multiples of 4:
4 8 12 16 20 24 28

Multiples of 6:
6 12 18 24 30 36 42

Factors:

The factors of 18 are:
1, 2, 3, 6, 9 and 18

Common multiples:

Common Multiples

Common factors:

The factors of 12 are: 1, 2, 3, 4, 6 and 12
The factors of 8 are: 1, 2, 4 and 8
1, 2 and 4 are factors of 12 and 8.
1, 2 and 4 are common factors of 12 and 8

Whitney and Dexter both have dark hair.
 They have dark hair in common.

Prime numbers:
Integers that have exactly two factors are called **Prime Numbers**

1 row of 5

The only factors of 5 are 1 and 5

Square numbers:

3 rows of 3 counters is equal to 9 counters
 $3 \times 3 = 9$

The product of an integer multiplied by itself is a square number.

Cube numbers:
64 is a cube number.

$4 \times 4 \times 4 = 64$
16

Divide by 10, 100 and 1,000:

TTh	Th	H	T	O
4	7	0	0	0

$47,000 \div 10 = 4,700$

TTh	Th	H	T	O
	4	7	0	0

$47,000 \div 100 = 470$

TTh	Th	H	T	O
		4	7	0

$47,000 \div 1,000 = 47$

Multiples by 10, 100 and 1,000:
Here are methods to work out 24×20 :

Method 1

$24 \times 10 \times 2$
 $= 240 \times 2$
 $= 480$

Method 2

$24 \times 2 \times 10$
 $= 48 \times 10$
 $= 480$