

Check out

You should now be able to ...

✓ Multiply and divide by powers of 10.	6
✓ Round whole numbers and decimals.	5
✓ Work out calculations using BIDMAS.	5
✓ Identify multiples, factors and prime numbers.	5
✓ Use product of prime factors to find HCF and LCM.	5
✓ Order decimals.	5

Test it

Questions

1	6
2	5
3	5
4-8	5
9, 10	5
11	5



Language Meaning Example

Rounding	Writing a number with fewer non-zero digits. It makes numbers easier to work with.	123 = 120 to the nearest 10 6.75 = 6.8 to one decimal place
BIDMAS	BIDMAS helps you to remember the order of operations: brackets, indices, division, multiplication, addition and subtraction.	$(4 \times 3 - 2)^2 + 3 = 103$ $4 \times 3 - 2^2 + 3 = 11$
Factor	A number which divides exactly into another number.	1, 3, 9 and 27 are all factors of 27. $27 = 1 \times 27 = 3 \times 9$
Highest common factor (HCF)	The highest number that is a factor of two or more numbers.	The HCF of 24 and 36 is 12.
Lowest common multiple (LCM)	The smallest number that is a multiple of two or more numbers.	The LCM of 24 and 36 is 72.
Multiple	A multiple of a number is a number in its times table.	12 and 18 are multiples of 6. $12 = 2 \times 6$, $18 = 3 \times 6$
Prime	A prime number has two factors.	2, 3, 5, 7, 11 ... are prime. 1 is <i>not</i> a prime number

- Calculate
 - $78 \div 10$
 - $325 \div 100$
 - 9×0.1
 - 6×0.01
 - $0.7 \div 0.01$
 - 170×0.01
 - $35 \div 0.1$
 - 0.92×0.1
- Round 6096.5
 - to the nearest whole number
 - to the nearest 10
 - to the nearest 100
 - to the nearest 1000
- Calculate these using the correct order of operations.
 - $23 + 5 \times 2$
 - $24 - 8 \div 4$
 - $(25 + 7) \times 3$
 - $65 - 3 \times (4 + 1)$
 - $2 \times 4^2 + 3 \div 3$
 - $(2 + 1)^2$
 - $15 - 4 \times 6$
- Which of the following numbers are factors of 8?
 - 2
 - 3
 - 8
 - 12
 - 16
 - 24
- Which of the following numbers are multiples of 8?
 - 2
 - 3
 - 8
 - 12
 - 16
 - 24
- Use divisibility tests to answer these questions and explain your answer.
 - Is 3 a factor of 564?
 - Is 610 a multiple of 4?
 - Is 103 a prime number?
 - Is 6745 divisible by 5?
- Write each of these numbers as a product of its prime factors.
 - 42
 - 175
- Which of the following numbers are prime numbers?
 - 3
 - 6
 - 7
 - 9
- Find the highest common factor of each pair of numbers.
 - 18 and 45
 - 96 and 180
- Find the lowest common multiple of each pair of numbers.
 - 11 and 8
 - 28 and 70
- Put these decimals in order from smallest to largest.
 - 3.5
 - 3.2
 - 3.0
 - 4
 - 0.1
 - 0.01
 - 0.12
 - 0.21
 - 9.8
 - 9.08
 - 8.99
 - 9.91
 - 0.8
 - 0.78
 - 0.09
 - 0.81

What next?

0 - 4	Your knowledge of this topic is still developing. To improve look at Formative test: 3A-1; MyMaths: 1003, 1004, 1027, 1032, 1034, 1035, 1044, 1072, 1167 and 1392
5 - 9	You are gaining a secure knowledge of this topic. To improve look at InvisiPen: 111, 112, 114, 124, 171, 172 and 173
10 - 11	You have mastered this topic. Well done, you are ready to progress!

Score