

Level 3 Types of Numbers

Answer the following questions, showing all your working.

No calculator allowed.

1. Calculate (a) $8 - 3 \times 2$ (b) $4 + 2 \times 3^2$
2. Calculate the area and perimeter of the rectangle below, with length 12cm and breadth 5cm.



3. Create a shape with rotational symmetry of order 4.
4. Write down the first 10 square numbers.
5. The temperature one day rose from -15°C to 12°C .
By how much had it risen?
6. Excluding zero, list the first 6 multiples of:-
(a) 6 (b) 8 (c) 11 (d) 20
7. Find the l.c.m of each of the following sets of numbers.
(a) 6 and 2 (b) 7 and 9 (c) 3, 5 and 10
8. Find the h.c.f for each of the following:-
(a) 24 and 36 (b) 13 and 26 (c) 12 and 42
9. There is only one number which is both a multiple and a factor of 12.
What is the number?
10. List all the prime numbers between 50 and 100.
11. List each of the following numbers as a product of primes:-
(Hint:- construct a "Prime factor tree")
(a) 36 (b) 64 (c) 98