

YEAR 11 Mock Preparation : UNIT 2 : 2

Calculate

1) $\frac{3}{5}$ of £625

2) $\frac{7}{8}$ of 960 kg

3) $\frac{4}{7}$ of 287 litres

4) $\frac{3}{4}$ of 22.8

5) $\frac{9}{10}$ of \$160

6) $\frac{7}{13}$ of 1690 mL

Calculate the next term in each sequence

7) 3, 10, 17, 24, 31,

8) 2, 3, 5, 8, 12, 17,

9) 13, 10, 7, 4, 1,

10) -15, -11, -7, -3,

11) 1, 2, 4, 8, 16,

12) 8, 4, 2, 1, $\frac{1}{2}$,

Work out the 1st 3 terms of these sequences

13) $n + 4$

14) $2n - 1$

15) $20 - 3n$

Write down the n 'th term of these sequences.

16) 2, 5, 8, 11, 14, ...

17) 5, 7, 9, 11, 13, ...

18) 7, 12, 17, 22, 27, ...

19) 2, 4, 6, 8, 10, ...

20) 40, 35, 30, 25, 20, ...

21) 28, 25, 22, 19, ...

22) If $a = 3$ $b = -2$ $c = 2.4$ $d = -1.8$ $e = 0$

Work out a) $b + a$ b) $3a + 2b$ c) $a + 2b$ d) ac

e) $3d - 4c$

f) $5e - 2d$

g) d^2