

Maths – 7 Support: Spring 1

1 Number – Properties of numbers

Factors and Multiples:

Factors of 10 are 1, 2, 5, 10 \div

Multiples of 10 are 10, 20, 30, 40, ... \times

Square numbers:

3 **9** $3^2 = 3 \times 3 = 9$
 3 9 is a square number

Primes:

Prime numbers have **exactly 2** factors.

e.g. 7 is prime, because the factors of 7 are 1 and 7.

$$\sqrt{9} = 3$$

Square root is the opposite of square

2 Algebra – Sequences

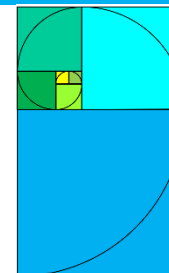
Here are the first five terms of a number sequence.

3 8 13 18 23 **28 33**

- (a) Write down the next **two** terms of the sequence.
 (b) Explain how you found your answer. **+5**



- (c) In the space below, draw Pattern number 4.



3 Number – Fractions and Percentages

$$\frac{1}{5} \text{ of } 20 = \frac{20}{5} = 4$$

$$\frac{3}{4} \text{ of } 20 = 3 \times \frac{20}{4} = 3 \times 5 = 15$$

What fraction of £4 is 50p?

Turn into pence $\rightarrow \frac{50}{400} = \frac{1}{8}$

$$\frac{1}{10} = 0.1 = 10\%$$

$$\frac{1}{100} = 0.01 = 1\%$$

$$50\% \text{ of } 60 = 30$$

$$25\% \text{ of } 60 = 15$$

$$10\% \text{ of } 60 = 6$$

4 Number – Written Methods

Evaluate 36×81

	3	6	×	
	2	4	8	
	0	0	8	
	1	3	6	
2	9	1	6	

$$2.65 + 3.9$$

$$\begin{array}{r} 2.65 \\ + 3.90 \\ \hline 6.55 \end{array}$$

$$9.8 - 4.35$$

$$\begin{array}{r} 9.80 \\ - 4.35 \\ \hline 5.45 \end{array}$$

1	2	3	4
27 – 28	196	58	21
33	197	78	47
99		81 – 83	

Keywords:

Factor
 Multiple
 Prime