

Learning Objective:	Different types of number	Name:	
		Date:	

Do NOW Activity:

1	What is the value of the number 3 in 8303.27	
2	Write $\frac{3}{5}$ as a percentage	
3	Work out $\frac{2}{5} \times \frac{3}{8}$	
4	What is the mode? -> 2 8 2 4 7 5 4 1 5	
5	Share £64 in the ratio 10:4:2	

PRIOR KNOWLEDGE CHECK:

1. I can use the different types of numbers

THE MAIN EVENT

WORKED EXAMPLE #1:

2. From the list of numbers

7 9 12 21 23 30 36 45

(a) write down the multiples of 7.

7, 21
.....
(2)

(b) write down the multiples of 5.

30, 45
.....
(2)

(c) write down the multiples of 12.

12, 36
.....
(2)

PRACTICE #1:

Simplify each of the following calculations.

Question 1: Work out the answers to each of the following

- | | | | |
|--------------|--------------|----------------|----------------|
| (a) $2 - 3$ | (b) $3 - 5$ | (c) $4 - 9$ | (d) $1 - 5$ |
| (e) $5 - 7$ | (f) $6 - 7$ | (g) $8 - 11$ | (h) $2 - 10$ |
| (i) $-2 + 4$ | (j) $-3 + 9$ | (k) $-7 + 10$ | (l) $-6 + 1$ |
| (m) $-5 + 8$ | (n) $-9 + 7$ | (o) $-20 + 11$ | (p) $-12 + 18$ |
| (q) $-3 - 2$ | (r) $-4 - 1$ | (s) $-6 - 3$ | (t) $-1 - 5$ |

Practice #2:

Question 1: List the first ten prime numbers

Question 2: Are the numbers below, **prime** or **not prime**?

- | | | | | | |
|--------|--------|--------|--------|--------|--------|
| (a) 5 | (b) 9 | (c) 10 | (d) 11 | (e) 13 | (f) 15 |
| (g) 19 | (h) 21 | (i) 22 | (j) 30 | (k) 31 | (l) 44 |

Question 3: From the box, choose:

- (a) the smallest prime number
- (b) a prime number that is greater than 10
- (c) an even prime number
- (d) the largest prime number
- (e) three numbers that are not prime

7	19	2	
	17	81	
9	1	27	99
101	100	55	

PRACTICE #3:

Question 1: Write each of the following as multiplications
e.g. $5^2 = 5 \times 5$

- (a) 3^2 (b) 1^2 (c) 6^2 (d) 9^2 (e) 10^2 (f) 4^2 (g) 12^2

Question 2: Below is a list of numbers.

0 1 4 7 8 9 11 15 20 25 29

From the list write down:

- (a) The square root of 81
- (b) The square root of 225
- (c) The square root of 400
- (d) The square root of 1

Question 3: Work out each of the following
You may use a calculator

- (a) $\sqrt{324}$ (b) $\sqrt{1444}$ (c) $\sqrt{841}$ (d) $\sqrt{4225}$ (e) $\sqrt{21316}$ (f) $\sqrt{652864}$

Exam Type Questions:

1. From the list of numbers



3 6 8 14 16 28 41 64

(a) write down the cube numbers

..... and
(2)

(b) write down the cube root of 27.

.....
(1)