W/C: 1.06.2020

Task 1: Log in to purple mash:

Task 2: Log in to Rockstars and test yourself on the 9 times tables. Below is also a paper version

10 × 9 = _____	9 × 2 = _____	9 × 4 = _____
11 × 9 = _____	5 × 9 = _____	8 × 9 = _____
9 × 5 = _____	6 × 9 = _____	3 × 9 = _____
2 × 9 = _____	9 × 11 = _____	9 × 1 = _____
9 × 3 = _____	9 × 9 = _____	12 × 9 = _____
4 × 9 = _____	9 × 8 = _____	9 × 12 = _____
7 × 9 = _____	9 × 10 = _____	9 × 7 = _____
1 × 9 = _____	9 × 6 = _____	9 × 5 = _____
9 × 12 = _____	3 × 9 = _____	9 × 10 = _____
9 × 11 = _____	9 × 2 = _____	12 × 9 = _____

Task 3: Use your timestable knowledge to help you to find all of the common factors of these numbers.

A common factor is a number that can be divided into two or more different numbers without leaving a remainder

Can you find the common factors of the following pairs of number?

1. 3 5

The common factors are: _____

2. 8 40

The common factors are: _____

3. 30 12

The common factors are: _____

4. 21 42

The common factors are: _____

5. 50 20

The common factors are: _____

6. 16 44

The common factors are: _____

7. 99 36

The common factors are: _____

8. 24 108

The common factors are: _____

Can you find the common factors of the following trios of number?

1. 10 25 75

The common factors are: _____

2. 6 42 84

The common factors are: _____

3. 28 36 64

The common factors are: _____

4. 27 54 90

The common factors are: _____

Task 4: Use this number grid to find all of the prime numbers up to 100. Once you have found them all can you recall all of the prime numbers up to 19?

A prime number is a number with only 2 factors (itself and one)

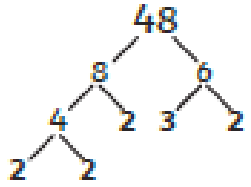
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

The prime numbers up to 19 are:

(Can you recall theses without looking at your grid?)

Now use your knowledge of prime numbers and factors to find the prime factors of the following:

Every number has a unique set of prime factors. (Prime numbers can be multiplied together to make the number.) These can be found using a "Factor Tree". Find any factors of the number, then the factors of those numbers until you can't go any further – the resulting numbers will be the prime factors.

A. 	B. 	c. 
$2 \times 2 \times 2 \times 3 \times 2 = 48$		
D. 42	E. 60	F. 88
G. 96	H. 72	I. 105