FACTORS & MULTIPLES

5.3a The student will identify and describe the characteristics of prime and composite numbers.

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

Multiples of 6: purple circle Multiples of 5: partially shade blue Multiples of 4: orange triangle Multiples of 3: red box Multiples of 2: black underline Multiples of 10: Grey X Multiples of 7: Brown X Prime Numbers: Shade yellow Multiples of 9: partially shade green Multiples of 8: partially shade pink

<u>Multi</u>	ples	Factors				
What - Mult (mu - Mult (sma num are - We fract fract grou grou	they are: iples are created by ltiplying/dividing). iples are generally aller/bigger) than the ber you start with and (limited/limitless). use multiples to (simplify tions/create equivalent tions) and to (create ups of a certain size/ split umber into equal sized ups).	 What they are: Factors are created by (multiplying/dividing). Factors are generally (smaller/bigger) than the number you start with and are (limited/limitless). We use factors to (simplify fractions/create equivalent fractions) and to (create groups of a certain size/ split a number into equal sized groups). 				
How v - Star num num	we find them: ting with 1, multiply your ber by each whole ber, counting up.	How we find them: - Start with 1 and your number, leaving room in between. Check each divisibility rule to see how your number can be divided.				
Exam	ple: Is 48 a multiple of 6?	Example: What are the factors of 36?				
Divisibility Rules (for numbers 2 – 99)						
2	If the ones digit is 0, 2, 4, 6, or 8.	8	If the last 3 digits are divisible by 8			
3	If the sum of the digits is divisible by 3.	9	If the sum of the digits is divisible by 9.			
4	If the last two digits are divisible by 4.	10	If the last digit is 0			
5	If the ones digit is 0 or 5.	11	If you can subtract last digit from first two and get 11.			
6	If the number is divisible by 2 and 3.	12	If the number is divisible by 3 and 4.			

