

Week 14

Monday 22nd June 2020

## **Year 6 Maths Prime Numbers**

You can revise prime numbers and composite numbers using the link: <https://www.youtube.com/watch?v=3h4UK62Qrbo>

## Prime Numbers

1a. Use the digit cards to make prime numbers which are less than 30.



Find all the possibilities.



## Prime Numbers

1b. Use the digit cards to make prime numbers which are less than 30.



Find all the possibilities.



2a. Choose the prime numbers from the selection below and add them to the table.

1-digit Prime Numbers	2-Digit Prime Numbers



What do you notice?



2b. Choose the prime numbers from the selection below and add them to the table.

Odd Prime Numbers	Even Prime Numbers



What do you notice?



3a. Are the following statements true or false?



Max

23 is a prime number.



Luna

The largest prime number less than thirty is 29.



Jacob

Even numbers are not prime numbers.

Explain why.



3b. Are the following statements true or false?



Erin

Multiples of 5 are not prime numbers.



Maya

All odd numbers are prime numbers.



Ezra

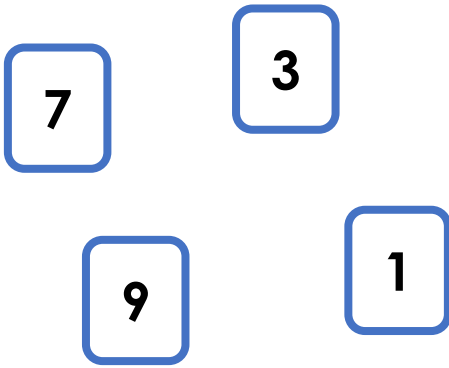
13 is a prime number.

Explain why.



## Prime Numbers

4a. Use the digit cards to make prime numbers which are less than 100.

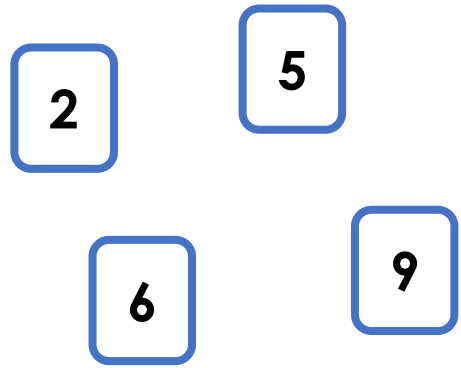


Find all the possibilities.



## Prime Numbers

4b. Use the digit cards to make prime numbers which are less than 100.



Find all the possibilities.



5a. Choose the prime numbers from the selection below and add them to the table.

Odd Prime Numbers	Even Prime Numbers

37   42   18   51   85   53   29

What do you notice?



5b. Choose the prime numbers from the selection below and add them to the table.

1-Digit Prime Numbers	2-Digit Prime Numbers

5   22   8   59   7   2   73

What do you notice?



6a. Are the following statements true or false?



Sam

All prime numbers are odd.



Ava

99 is the largest prime number under 100.



Della

83 is a prime number.

Explain why.



6b. Are the following statements true or false?



Alfie

If the ones digit is a 9, the number is a prime number.



Grace

2 is the only even prime number.



Oscar

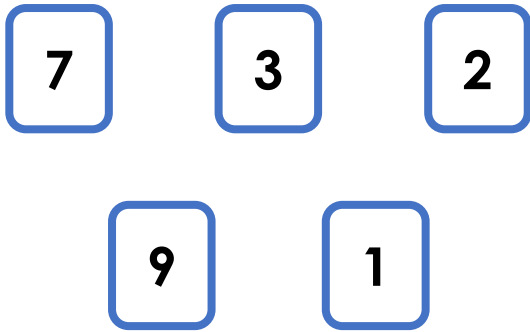
57 is a prime number.

Explain why.



## Prime Numbers

7a. Use the digit cards to make prime numbers which are less than 200.

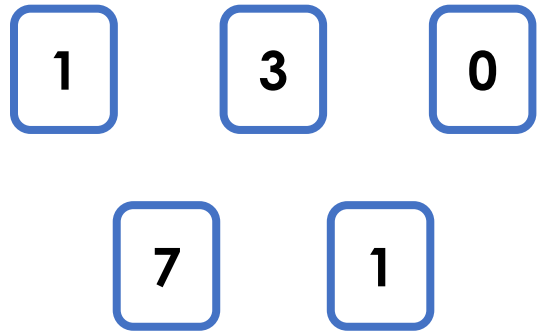


Find all the possibilities.



## Prime Numbers

7b. Use the digit cards to make prime numbers which are less than 200.



Find all the possibilities.



8a. Choose the prime numbers from the selection below and add them to the table.

Odd Prime Numbers	Even Prime Numbers



What do you notice?



8b. Choose the prime numbers from the selection below and add them to the table.

Odd Tens Value	Even Tens Value



What do you notice?



9a. Are the following statements true or false?



151 is a prime number.

Harry



If the ones digit is a 7, the number is a prime number.

Ruby



All 3-digit prime numbers end in 9 or 7.

Amelia

Explain why.



9b. Are the following statements true or false?



The largest 3-digit prime number under 200 is 199.

Freya



183 is a prime number.

Maya



All 3-digit prime numbers are odd.

Leo

Explain why.



## Challenge

Color the numbers.



Prime



Composite



Neither prime nor composite

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

Explain why you coloured in the number(s) in brown using the correct terms.

Find the **prime factors** of **45**.

Explain how you found these **prime factors** using the correct terms.