Identify Prime Numbers

Mr Lund
Maths

Identify Prime Numbers

1. a) List the factors of 2

   b) List the factors of 47

   c) How does this tell you that 2 and 47 are prime?

2. List the prime numbers to 10

3. Explain why 1 is not prime.

4. Gary has highlighted the primes up to 100, but he has missed 4 primes.

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

Which 4 has he missed?

Identify Prime Numbers

5. Is the statement true or false?

All prime numbers are odd.

Explain your answer.

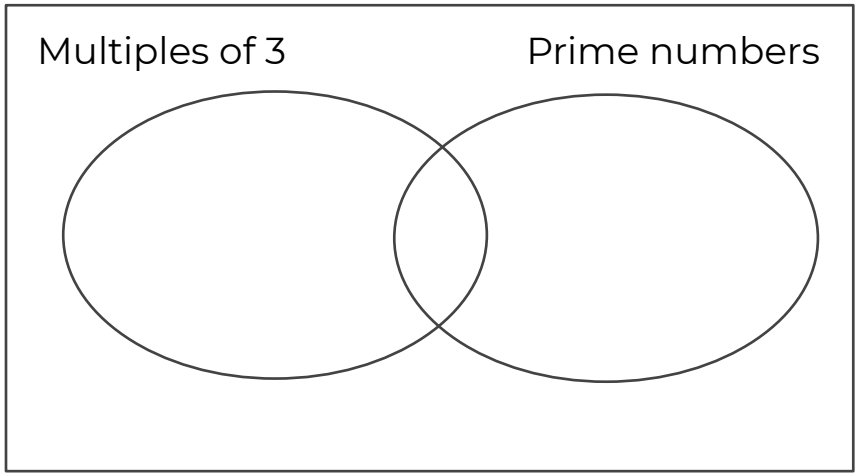
6. Fill in the blanks to write 20 and 16 as the sum of two primes.

☐ + ☐ = 20

☐ + ☐ = 16

7. Sort the numbers into the Venn diagram.

1, 2, 3, 5, 17, 18, 23, 33



Answers

Identify Prime Numbers

1. a) List the factors of 2

1, 2

b) List the factors of 47

1, 47

c) How does this tell you that 2 and 47 are prime?

Prime numbers have exactly 2 factors.

2. List the prime numbers to 10

2, 3, 5, 7

3. Explain why 1 is not prime.

Primes have exactly two factors and 1 only has one factor.

4. Gary has highlighted the primes up to 100, but he has missed 4 primes.

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

Which 4 has he missed?

2, 7, 13, 23

Identify Prime Numbers

5. Is the statement true or false?

All prime numbers are odd.

Explain your answer.

False, 2 is the only even prime.

6. Fill in the blanks to write 20 and 16 as the sum of two primes.

e.g 3 + 17 = 20

3 + 13 = 16

7. Sort the numbers into the Venn diagram.

1, 2, 3, 5, 17, 18, 23, 33