

Mathematics

Prime Numbers

Practice Questions

1. Write all of the prime numbers that are between:

- a) 1 and 10
- b) 25 and 35
- c) 30 and 40
- d) 55 and 65
- e) 70 and 90

2. Add up the prime numbers that are between:

- a) 5 and 15
- b) 20 and 30
- c) 45 and 55
- d) 70 and 80
- e) 85 and 95

3. Solve:

- a) Which two prime numbers between 40 and 50 can be added together and then divided by 9 to give an answer of 10?
- b) Which two prime numbers multiply together to give the answer 119?
- c) Which two different pairs of prime numbers add together to make a total of 84?



How many prime numbers are there between 1 and 100?

What do I do?



Answer the following questions involving prime numbers.

Top Tips!



You need to learn all prime numbers up to 100. Use the pocket-sized grid below to revise and hide it when you answer the questions.

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

A prime number is a natural number that can only be divided by itself and one.

What skills do I need to improve?



Doing lots of practice questions will help with becoming familiar with question types but what else can you do to improve in this area?

- Learn your prime numbers to 100. You can do this by playing games (there are lots of games online, such as Blooket and Transum maths).
- Learn other 'special numbers' such as: square numbers, triangular numbers and cube numbers.

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Answers

1.

- a) 2, 3, 5, and 7
- b) 29 and 31
- c) 31 and 37
- d) 59 and 61
- e) 71, 73, 79 and 89

2.


- a) 36
- b) 52
- c) 100
- d) 223
- e) 89

3.

a) $43 + 47 = 90$
 $90 \div 9 = 10$

b) $7 \times 17 = 119$

c) $37 + 47 = 84$
 $41 + 43 = 84$



There are 25 prime numbers between 1 and 100.