

Maths Mastery

Prime and Composite Numbers



Prime Numbers

Explain why 5 is a prime number.

5 is a prime number because the only factors are 1 and 5, 1 and the number itself.

(5 is not a multiple of 2, 3 or 4. It is only a multiple of 1 and 5, 1 and itself.)

Compare your answer with a partner. What improvements can be made to your explanation?

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Answers

Prime Numbers

Explain why 8 is not a prime number. What term is used to describe this number that is not prime.

8 is not a prime number because 8 has factors other than 1 and 8, 1 and itself. The other factors are 2 and 4.

(8 is a multiple of 2 and 4.)

8 is a composite number.

Compare your answer with a partner. What improvements can be made to your explanation?

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Answers

Prime 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

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Answers

Prime Factors

The factors of 45 are 1, 3, 5, 9, 15 and 45.

9, 15 and 45 are not prime as they are multiples of 3 (or 3 is a factor).

1 is not a prime number as prime numbers are greater than 1.

The prime factors of 45 are 3 and 5.

$$3 \times 3 \times 5 = 45$$



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Answers

