

## Prime Numbers - Questions

- A**
- 1) Explain what a composite number is.
  - 2) Explain what a prime number is.

- B**
- Follow the instructions to color in the hundred square.
- 1) Color 1 in red.
  - 2) Color multiples of 2 (above 2) in blue.
  - 3) Color multiples of 3 (above 3) in green.
  - 4) Color multiples of 5 (above 5) in yellow.
  - 5) Color multiples of 7 (above 7) in purple.
  - 6) List all the prime numbers up to 100 using the completed hundred square.

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

## Prime Numbers - Questions

- C** Are these statements true or false? Prove your answers.
- 1) 1 is a prime number.
  - 2) A composite number has more than two factors.
  - 3) All prime numbers are odd.
  - 4) 21 is a prime number.
  - 5) All two digit numbers that have 3 in the ones column are prime numbers.

## Prime Numbers - Answers

Question	Question	Answer
<b>A</b>	1. Explain what a composite number is. 2. Explain what a prime number is.	1. A composite number can be divided by numbers other than one and itself to give a whole number answer. 2. A prime number has exactly 2 factors, one and itself.
<b>B</b>	1. to e. Follow the instructions to color in the hundred square. 6. List all the prime numbers up to 100 using the completed hundred square.	1. to e. squares accurately colored. 6. 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97
<b>C</b>	Are these statements true or false? Prove your answers. 1. 1 is a prime number. 2. A composite number has more than two factors. 3. All prime numbers are odd. 4. 21 is a prime number. 5. All two digit numbers that have 3 in the ones column are prime numbers.	1. False - 1 is not a prime number. 2. True 3. False - 2 is a prime number and it is even. 4. False - 21 has more than 2 factors: 1, 3, 7 and 21 are all factors of 21. 5. False - 33 has 3 in the ones column and has more than 2 factors: 1, 3, 11 and 33 are all factors of 21.

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