

number theory 2a

1) List the first 12 square numbers.

2) List the first 10 triangular numbers.

3) List the factors of :

- a) 12
- b) 4
- c) 20
- d) 7
- e) 28

4) List the first four multiples of :

- a) 5
- b) 7
- c) 22

5) How many factors does a prime number have ?
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6) What is a composite number ?

7) List all the prime numbers up to 100 .

8) List all the composite numbers up to 30 .

9) Find the HCF and LCM of the following pairs of numbers .

a) 9 , 15

HCF =

LCM =

b) 20 , 45

HCF =

LCM =

c) 45 , 60

HCF =

LCM =

d) 15 , 28

HCF =

LCM =

name.....

10) Express each of the following numbers in terms of its prime factors (in index form)

a) 440 =

=

=

b) 420 =

=

=

c) 1155 =

=

=

11)a)Find the HCF of 440 and 1155

b) Find the LCM of 440 and 420

c) Find the HCF of 420 and 1155

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