

number theory 2c

1) List the first 12 square numbers.

2) List the first 10 triangular numbers.

3) List the factors of :

a) 13

b) 12

c) 27

d) 32

e) 25

4) List the first four multiples of :

a) 9

b) 4

c) 15

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) 20 , 30

HCF =

LCM =

b) 30 , 45

HCF =

LCM =

c) 45 , 20

HCF =

LCM =

d) 4 , 22

HCF =

LCM =

name.....

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

a) 840 =

=

=

b) 1650 =

=

=

c) 504 =

=

=

11)a) Find the HCF of 840 and 1650

b) Find the LCM of 840 and 504

c) Find the HCF of 1650 and 504

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