number theory 2e

1) List the first 12 square numbers.

2) List the first 10 triangular numbers.

3) List the factors of :

a) 20 ....

b) 45 ....

c) 27 ....

d) 39 ....

e) 21 ....

4) List the first four multiples of :

a) 9 ....

b) 19 ....

c) 17 ....

5) How many factors does a prime number have ?
....

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) 18 , 30

HCF =

LCM =

b) 45 , 18

HCF =

LCM =

c) 50 , 30

HCF =

LCM =

d) 14 , 18

HCF =

LCM =

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

a) 1260 =

=

=

b) 378 =

=

=

c) 504 =

=

=

11)a)Find the HCF of 504 and 378

b) Find the LCM of 1260 and 378

c) Find the HCF of 1260 and 504

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