number theory 2d

1) List the first 12 square numbers.

2) List the first 10 triangular numbers.

3) List the factors of :

a) 15 ....

b) 42 ....

c) 29 ....

d) 36 ....

e) 20 ....

4) List the first four multiples of :

a) 8 ....

b) 13 ....

c) 11 ....

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)   25 , 30

HCF =

LCM =

b)   30 , 18

HCF =

LCM =

c)   50 , 20

HCF =

LCM =

d)   14 , 21

HCF =

LCM =

name................................

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

a) 1260 =

=

=

b) 392 =

=

=

c) 504 =

=

=

11)a)Find the HCF of 1260 and 392

b) Find the LCM of 1260 and 504

c) Find the HCF of 392 and 504

Parent's signature and comment