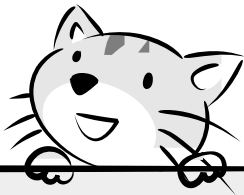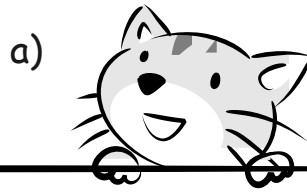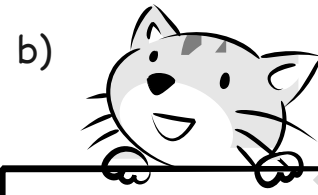# Properties of Factors

Observe the factors found in sheet 2 and 3. On the basis of observations, find the answers for each of the following.

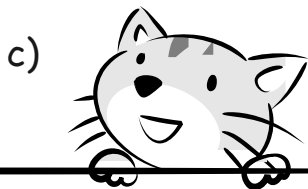___1___ is the smallest factor of 48.
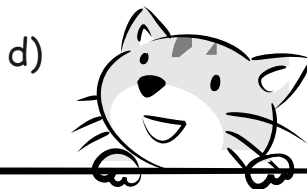
a) Guess the smallest factor of 177 = _____
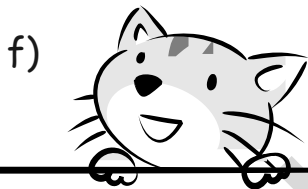
b) _____ is the smallest factor of every number.

c) Is there any number which is factor of every number ? _____

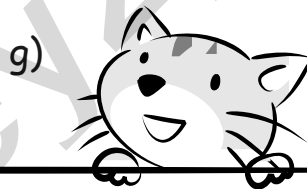d) _____ is a factor of every number.

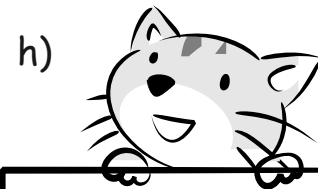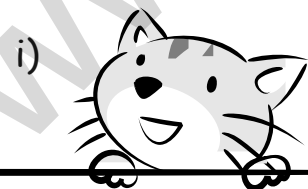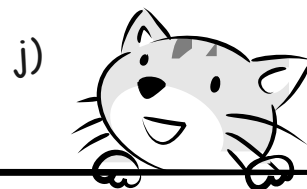e) Largest factor of 144 = _____

f) Largest factor of 105 = _____

g) Guess the largest factor of 200 = _____
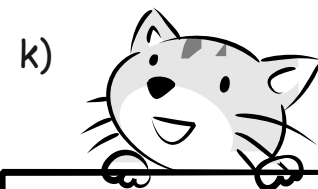
h) _____ is the largest factor of a number.

i) Is there any factor of 28 which is greater than 28 ? _____

j) All factors of 150 are _____ (less/ more) than or equal to 150.

k) All factors of 723 are _____ (less/ more) than or equal to 723.

Divisibility Rules

Paint the picture given below. Color the part of the picture 'Red' which has number divisible by 9 and 'Green' which has number divisible by 11.

Divisiblity by 9

A number is divisible by 9 if Sum of digits is divisible by 9.

Is 8353 divisible by 9?

Yes

8 + 2 + 5 + 3 = 18 → Divisible by 9

Is 2005 divisible by 9?

No

2 + 0 + 0 + 5 = 9 → Not divisible by 9

Divisiblity by 11

Add the alternate digits and find the difference.
Difference should be either 0 or divisible by 11.

Is 582714 divisible by 11?

Yes

5 + 2 + 1 = 8
8 + 7 + 4 = 19 → 19 - 8 = 11

Is 15623 divisible by 11?

No

1 + 6 + 3 = 10
5 + 2 = 7 → 10 - 7 = 3

61831

84854

45693

46152

69828

92939

54270

40667

26325

35959