

To know what a factor is and how to find the factors of a given number.

Tip = Factors come in pairs. A factor is a number multiplied by another to make an answer.  
EG Factors of 6 =  $2 \times 3$  and  $6 \times 1$ . So 1, 2, 3 and 6 are all factors of 6.

Miss Vivian's group

Find the factors of these numbers:

10= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

15= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

3= \_\_\_\_\_, \_\_\_\_\_

20= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

18= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

25= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

27= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

12= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Now try these (I haven't told you how many factors there are).

21= \_\_\_\_\_

31= \_\_\_\_\_

49= \_\_\_\_\_

Can you do Mrs Adams' group work?

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Mrs Adams' Group

Find the factors of these numbers:

18= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

25= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

27= \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Now try these (I haven't told you how many factors there are).

42= \_\_\_\_\_

56= \_\_\_\_\_

64= \_\_\_\_\_

40= \_\_\_\_\_

Find the factors of these numbers.

23= \_\_\_\_\_

47= \_\_\_\_\_

11= \_\_\_\_\_

Can you do Miss Harris' group work?

What do you notice about these numbers? Write your answer here:

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Miss Harris' Group

List all the factors of

- a) 12
- b) 20
- c) 17
- d) 28
- e) 112
- f) 64
- g) 81

List the factors of

- a) 7
- b) 11
- c) 17
- d) 23
- e) 47

What do you notice about these numbers?

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Find out what these numbers are called. P \_\_\_\_\_ N \_\_\_\_\_

Find the highest common factor (HCF) of the following sets of numbers.

- a) 12 and 18 = \_\_\_\_\_
- b) 24 and 30 = \_\_\_\_\_
- c) 40 and 120 = \_\_\_\_\_
- d) 15, 30 and 45 = \_\_\_\_\_

Challenge - In ascending order (getting higher) how many Prime numbers can you list?