**FACTORS**

1. Decide if the following statements are true or false:

a) 4 is a factor of 16 b) 3 is a factor of 18 c) 5 is a factor of 42

d) 7 is a factor of 28 e) 9 is a factor of 23 f) 10 is a factor of 45

g) 8 is a factor of 32 h) 2 is a factor of 11 i) 12 is a factor of 48

2. a) Write down all six factors of 32.

1. Write down all six factors of 20.
2. Write down all nine factors of 36.
3. Write down all eight factors of 40.

3. Write down all the factors for each of the following numbers:

a) 9 b) 28 c) 26 d) 11 e) 30

f) 50 g) 48 h) 30 i) 35 j) 100

4. Write down all the factors for each pair of numbers:

a) 8 and 24 b) 6 and 36 c) 12 and 32 d) 8 and 18

e) 5 and 30 f) 6 and 28 g) 26 and 36 h) 15 and 12

i) 28 and 49 j) 40 and 16 k) 30 and 6 l) 45 and 15

5. Now write down the HIGHEST COMMON FACTOR of each of the pairs of numbers from question 4.

6. Decide if the following statements are true or false (show any working you might need to do):

1. 5 is the highest common factor of 5 and 20.
2. 6 is the highest common factor of 36 and 24.
3. 4 is the highest common factor of 12 and 16.
4. 5 is the highest common factor of 15 and 35.
5. 3 is the highest common factor of 6 and 18.
6. 9 is the highest common factor of 27 and 18.
7. 2 is the highest common factor of 8 and 16.

7. Find the HIGHEST COMMON FACTOR for the following pairs of numbers:

a) 40 and 50 b) 30 and 35 c) 16 and 8

d) 27 and 45 e) 36 and 48 f) 26 and 22

g) 36 and 30 h) 44 and 33 i) 49 and 21

j) 15 and 60 k) 60 and 48 l) 144 and 12