

# Simple LCM and HCF

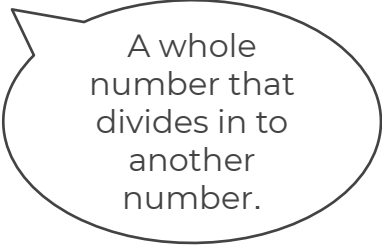
Maths

Mr Lund

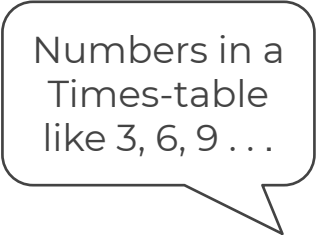


# Simple LCM and HCF

1. What is a factor?



A whole number that divides in to another number.



Numbers in a Times-table like 3, 6, 9 ...

Which statement do you agree with?

2. Write down the first 8 multiples of

a) 4          b) 6

c) List the common multiples

d) What is the lowest common multiple of 4 and 6? How do you know?

e) What is the lowest common multiple of 40 and 60?

3. Find the LCM of each pair of numbers.

a) 2 and 12    b) 3 and 12

c) 6 and 9    d) 7 and 3

e) 12 and 15    f) 25 and 35



# Simple LCM and HCF

4. a) Write down the factors of 10

b) Write the factors of 15

c) Circle all of the common factors of 10 and 15.

d) What is the highest common factor of 10 and 15?

5. Work out the HCF of each the following pairs of numbers.

a) 12 and 16      b) 20 and 30

c) 40 and 24      d) 24 and 48

e) 9 and 4      f) 100 and 60

6. Complete the table.

	HCF	LCM
12 and 40	4	
25 and 60		
16 and 36		144
20 and 42	2	



# Answers



# Simple LCM and HCF

1. What is a factor?

A whole number that divides in to another number.

Numbers in a Times-table like 3, 6, 9 ...

Which statement do you agree with?

The first statement is correct

2. Write down the first 8 multiples of

a) 4

b) 6

4, 8, 12, 16, 20, 24, 28, 32      6, 12, 18, 24, 30, 36, 42, 48

c) List the common multiples    12, 24, 36, ...

d) What is the lowest common multiple of 4 and 6? How do you know? 12

e) What is the lowest common multiple of 40 and 60? 120

3. Find the LCM of each pair of numbers.

a) 2 and 12      b) 3 and 12  
12      12

c) 6 and 9      d) 7 and 3  
18      21

e) 12 and 15      f) 25 and 35  
60      175



# Simple LCM and HCF

4. a) Write down the factors of 10

b) Write the factors of 15      1, 2, 5, 10  
   1, 3, 5, 15

c) Circle all of the common factors of 10 and 15. 1 and 5

d) What is the highest common factor of 10 and 15? 5

5. Work out the HCF of each the following pairs of numbers.

a) 12 and 16   4      b) 20 and 30   10

c) 40 and 24   8      d) 24 and 48   12

e) 9 and 4   1      f) 100 and 60   20

6. Complete the table.

	HCF	LCM
12 and 40	4	120
25 and 60	5	300
16 and 36	4	144
20 and 42	2	420

