

# PRIME FACTORISATION

Answer ALL Questions

1, Complete each sequence below:

(a) 2,3,5,7,11, \_\_\_\_\_, \_\_\_\_\_

(b) 23, 29, 31, 37 \_\_\_\_\_, \_\_\_\_\_

2. Which number is prime?

(a) 7 or 9

(b) 13 or 15

(c) 21 or 23

(d) 27 or 29

3. The **prime factors** of two numbers are given below:

FIRST NUMBER:

$2 \times 2 \times 2 \times 2$

SECOND NUMBER:

$2 \times 2 \times 2 \times 3$

(a) Write each number in the box next to its prime factors.

(b) Calculate the HCF of the set of numbers.

(c) Calculate the LCM of the set of numbers.

4. (a) Express **144** as a product of its prime factors, (Write your answer in ASCENDING ORDER)

Answer:  $144 =$

$\times$

$\times$

$\times$

$\times$

$\times$

(b) Write your answer to part (a) in INDEX(exponential) form

Answer =

$\times$

$\times$