Prime Factors
Prime Factorisation
Highest Common Factors
&
Least Common Multiples

Answer each of the following questions, using the boxes provided.

Click on the link in the Header of this page, or scan the QR Code, to view the online notes, tutorial(s) and answers for this worksheet.

Exercise 1

1. Write both 75 and 20 as products of prime factors.

2. Using your answers to question 1. find the Highest Common Factor (HCF) and Least Common Multiple (LCM) of 75 and 20.

Exercise 2

1. Write both 90 and 84 as products of prime factors.

2. Using your answers to question 1. find the Highest Common Factor (HCF) and Least Common Multiple (LCM) of 90 and 84.

Exercise 3

1. Write both 36 and 60 as products of prime factors.

2. Using your answers to question 1. find the Highest Common Factor (HCF) and Least Common Multiple (LCM) of 36 and 60.

Exercise 4

1. Write both 225 and 135 as products of prime factors.

2. Using your answers to question 1. find the Highest Common Factor (HCF) and Least Common Multiple (LCM) of 225 and 135.

Exercise 5

1. Write both 100 and 150 as products of prime factors.

2. Using your answers to question 1. find the Highest Common Factor (HCF) and Least Common Multiple (LCM) of 100 and 150.

Exercise 6

1. Write both 180 and 126 as products of prime factors.

2. Using your answers to question 1. find the Highest Common Factor (HCF) and Least Common Multiple (LCM) of 180 and 126.

Exercise 7

1. Write both 324 and 144 as products of prime factors.

2. Using your answers to question 1. find the Highest Common Factor (HCF) and Least Common Multiple (LCM) of 324 and 144.

Exercise 8

1. Write both 495 and 525 as products of prime factors.

2. Using your answers to question 1. find the Highest Common Factor (HCF) and Least Common Multiple (LCM) of 495 and 525.