

JustMaths

PRODUCT OF PRIME FACTORS

Name: _____

Total Marks: _____

Q.	Max	Actual	RAG
1	2		
2	2		
3	3		
4	3		
5	2		
6	2		
7	3		
8	3		
9	2		
10	2		
11	2		
12	4		

Q1. Express 72 as a product of its prime factors

(2 Marks)

Q2. Find the prime factors of 102

(2 Marks)

Q3. The number 84 can be written in the form $2^n \times m \times p$, where n , m and p are prime numbers. Find the values of n , m and p .

(3 Marks)

Q4. The number 48 can be written in the form $2^n \times 3$. Find the value of n .

(3 Marks)

Q5. Express 66 as a product of its prime factors.

(2 Marks)

Q6. Express 132^2 as a product of its prime factors

(2 Marks)

Q7. Express 792 as a product of its prime factors in index form.

(3 Marks)

Q8. $2x^2 = 72$

Find the value of x

(3 Marks)

Q9. Express 120 as a product of its prime factors.

(2 Marks)

Q10. Express 112 as a product of its prime factors in index form.

(2 Marks)

Q11. Can the sum of two prime numbers be a prime number?
Explain your answer.

(2 Marks)

Q12. a) Express 252 as a product of its prime factors.

b) Express 6×252 as a product of its prime factors.

(4 Marks)