JRA Tutors
Private tuition and small online Study Pods

Factors and Multiples

Grade 1 topic · Foundation and Higher · Edexcel and AQA

How to use this pack
20 questions that get harder as you go. Foundation students: aim for Questions 1–15 (38 marks) and have a go at the rest. Higher students: complete all 20. Show your working on the lines and write your final answer on the answer line, then mark yourself with the answers at the back. Diagrams are not drawn accurately. Total: 59 marks.

Warm-up

1 List all the factors of 45. **[2 marks]**

Answer _____

2 Write down the first four multiples of 8. **[1 mark]**

Answer _____

3 Is 69 a prime number? Give a reason for your answer. **[2 marks]**

Answer _____

4 List the prime numbers between 30 and 42. **[2 marks]**

Answer _____

5 Write down a prime factor of 21. **[1 mark]**

Answer _____

Core

6 List the common factors of 24 and 36. **[3 marks]**

Answer _____

7 Write down the first three common multiples of 6 and 8. **[3 marks]**

Answer _____

8 Write 28 as a product of two factors in as many ways as you can. **[3 marks]**

Answer _____

9 Find the smallest multiple of 6 that is greater than 100. **[3 marks]**

Answer _____

10 How many factors does 48 have? **[3 marks]**

Answer _____

Stretch

11 Find the smallest number that is a multiple of both 6 and 8. **[3 marks]**

Answer _____

12 Write down all the prime numbers that are factors of 78. **[3 marks]**

Answer _____

13 Find the numbers between 80 and 100 that are multiples of 7. **[3 marks]**

Answer _____

14 Write the factors of 48 that are also multiples of 3. **[3 marks]**

Answer _____

15 A number is a factor of 60 and a multiple of 4. List all the possible numbers. **[3 marks]**

Answer _____

Challenge

16 Find a number between 20 and 60 that has exactly three factors. **[4 marks]**

Answer _____

17 Between 80 and 100 there is one number that is a multiple of both 3 and 7. Find it. **[4 marks]**

Answer _____

18 Find the smallest number that has exactly 6 factors. **[5 marks]**

Answer _____

19 x is a multiple of 5 and a factor of 100. x is greater than 8 and less than 40. List all possible values of x. **[4 marks]**

Answer _____

20 The product of two prime numbers is 91. Find the two primes. **[4 marks]**

Answer _____