

Highest common factor and lowest common multiple (listing)

Grade 3 | Foundation | 19 questions, 45 marks

GCSE Maths topic practice



Scan for the solutions

Name: _____ **Date:** _____ **Score:** _____ / 45

1 Write down a factor of 20 that is greater than 5 and less than 20. (1 mark)

Answer _____

2 Write down all the factors of 18. (2 marks)

Answer _____

3 Write down the lowest common multiple (LCM) of
3 6 9 18 54 (1 mark)

Answer _____

4 Write down all the factors of 30. (2 marks)

Answer _____

5 Find the highest common factor (HCF) of 54 and 90 (2 marks)

Answer _____

6 Find the lowest common multiple (LCM) of 6 and 8. (2 marks)

Answer _____

7 Find the highest common factor (HCF) of 48 and 84 (2 marks)

Answer _____

8 Write down all the numbers that are factors of both 24 and 40. (2 marks)

Answer _____

9 Find the lowest common multiple (LCM) of 9 and 12. (2 marks)

Answer _____

10 Write down two numbers, both greater than 20, whose highest common factor (HCF) is 7 (2 marks)

Answer _____

11 Find the lowest common multiple (LCM) of 15 and 18 (3 marks)

Answer _____

12 Find the highest common factor (HCF) of 28 and 42. (3 marks)

Answer _____

13 List all the factors of 28. (2 marks)

Answer _____

14 A bus to the station leaves every 10 minutes. A bus to the market leaves every 25 minutes. Both buses leave the bus stop together at 8:00 am. At what time do they next leave together? (3 marks)

Answer _____

15 Nadia is making table decorations.

Each decoration needs one candle and one holder.

Candles are sold in packs of 9

Holders are sold in packs of 12

Nadia buys exactly the same number of candles as holders, with none left over.

Work out the smallest number of packs of candles and the smallest number of packs of holders she can buy.

(3 marks)

Answer _____

16 Ravi has 48 red counters and 36 blue counters.

He puts them into identical bags. Each bag has the same number of red counters and the same number of blue counters. No counters are left over.

What is the greatest number of bags Ravi can make?

(3 marks)

Answer _____

17 Two warning buoys are anchored in a harbour.

One buoy flashes every 24 seconds.

The other buoy flashes every 40 seconds.

At 8 pm the two buoys flash at the same time.

Work out how many seconds later the two buoys next flash at the same time.

(3 marks)

Answer _____

18 Work out how many positive whole numbers less than 100 are multiples of both 4 and 6.

(3 marks)

Answer _____

19

- a. Find the highest common factor (HCF) of 72 and 120
- b. Find the lowest common multiple (LCM) of 72 and 120

(4 marks)

Answer

End of questions | Total 45 marks