

# PRIME NUMBERS, MULTIPLES, GCF, LCM

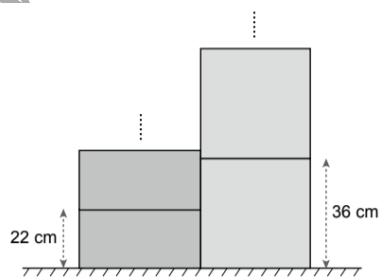
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A STAR MATHS ([www.astarmaths.com.au](http://www.astarmaths.com.au))

1. Find the factor pairs of 39.
2. Find the factor pairs of 15.
3. Find the prime factors of the number 20.
4. Find the prime factors of the number 99.
5. Find the prime factors of the number 45.
6. Find the prime factors of the number 28.
7. List the first 3 multiples of 3.
8. List the first 3 multiples of 5.
9. List the first 3 multiples of 11.
10. List the first 3 multiples of 13.
11. Find the greatest common factor for each number pair 5, 40.
12. Find the greatest common factor for each number pair 30, 6.
13. Find the greatest common factor for each number pair 10, 24.
14. Find the greatest common factor for each number pair 20, 15.

15. Find the least common multiple for each number pair 5, 24.
16. Find the least common multiple for each number pair 40,20.
17. Find the least common multiple for each number pair 8,5.
18. Find the least common multiple for each number pair 15,2.
19. Emma has 6 baseballs and 20 basketballs. If she wants to divide them into identical groups without any balls left over, what is the greatest number of balls in a group Emma can make?
20. Students in a school can be divided into identical groups consisting 20 or 24 students. What is the minimum number of the students?
21. Emre has a night shift once every 8 days and Murat has a night shift once every 10 days. Their first night shift is on Monday, then again which day they will work on night together?
22. The perimeter of wheels of a tractor is 240 and 540 cm. They mark the points which touch the floors on the wheels. How long would the tractor go for the marked points touches on the floor at the same time?
23. Two bells ring every 8 minutes and every 20 minutes. How many times do the bells ring in 170 minutes?

24.



There are two types of brick shown in the diagram. What is the minimum height of the wall if we want the pile of bricks to have same height at the end?

## ANSWERS

1. 3, 13
2. 3, 5
3. 2, 5
4. 3, 11
5. 3, 5
6. 2, 7
7. 3, 6, 9
8. 5, 10, 15
9. 11, 22, 33
10. 13, 26, 39
11. 5
12. 6
13. 2
14. 5
15. 120
16. 40
17. 40
18. 30
19. 2
20. 120
21. Friday
22. 2.16 m
23. 4
24. 396 cm

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