



Product title: Mathematics MCQ for Eleven Plus - HCF & LCM Topic Sample Sheet
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Mathematics Sample Test

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Questions

1. If the smallest number exactly divisible by x , y , z is 2520 and $x = 10$, $y = 12$, what is z ?

- A: 21
- B: 14
- C: 15
- D: 18

2. Find the smallest number that leaves a remainder of 2 when divided by 3, 4, 5, and 6, but is divisible by 7.

- A: 182
- B: 302
- C: 86
- D: 62

3. The smallest number which is exactly divisible by 9, 15, 21, and 24 is:

- A: 1260
- B: 2520
- C: 1680
- D: 5040

4. What is the largest number that divides 70, 98, and 126 leaving the same remainder in each case?

- A: 14
- B: 28
- C: 7
- D: 21

5. What is the least number that must be subtracted from 5607 to make it exactly divisible by 37, 47, and 67?

- A: 7
- B: 37

C: 13

D: 23

6. What is the highest 4-digit number that is exactly divisible by 12, 15, 21, and 30?

A: 9660

B: 9945

C: 9975

D: 9990

7. The product of two numbers is 4620, and their HCF is 11. Find their LCM.

A: 420

B: 462

C: 4200

D: 500

8. Which of the following pairs of numbers has its LCM as the product of the two numbers?

A: 9 and 12

B: 7 and 15

C: 8 and 28

D: 14 and 21

9. The LCM of two numbers is always greater than or equal to:

A: Their sum

B: Their difference

C: The larger number

D: The product of the two numbers

10. Which one of these is NOT a possible pair of numbers if the HCF is 5 and LCM is 120?

A: 15 and 40

B: 10 and 60

C: 20 and 30

D: 5 and 120

11. In a school, 120 students can be divided into equal groups of either 6, 8, or x students. What is the maximum value of x ?

- A: 10
- B: 12
- C: 15
- D: 16

12. Find the HCF of 16, 24, and 36.

- A: 2
- B: 4
- C: 8
- D: 6

13. The largest number that divides 75, 80, and 152 leaving the same remainder in each case is:

- A: 1
- B: 8
- C: 49
- D: 3

14. The HCF of 35, 56, and 91 is:

- A: 7
- B: 5
- C: 11
- D: 13

15. If HCF of two numbers is 18, and their product is 1944, what is their LCM?

- A: 108
- B: 216
- C: 54

D: 72

16. Two numbers have HCF 13 and LCM 2028. If one number is 169, what is the other number?

A: 126

B: 13

C: 117

D: 156

17. If the HCF of two numbers is 5 and their LCM is 165, the product of the two numbers is:

A: 165

B: 660

C: 825

D: 820

18. The least common multiple of 16 and 20 is:

A: 64

B: 160

C: 80

D: 40

19. A gardener has 324, 576, and 972 rose plants. What is the maximum number of equal groups of plants that can be formed?

A: 108

B: 36

C: 81

D: 72

20. There are three containers with 180L, 324L, and 252L of oil. What is the greatest size of container that can measure the quantity of oil exactly?

A: 18L

B: 36L

C: 27L

D: 9L



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Answer Sheet

1. A	2. A	3. B	4. B	5. A
6. A	7. A	8. B	9. C	10. B
11. C	12. B	13. A	14. A	15. A
16. D	17. C	18. C	19. B	20. B

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