



Product title: Mathematics MCQ for Eleven Plus - HCF & LCM Topic Sample Sheet 2.pdf

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Questions

1. The greatest number of 5 digits exactly divisible by 8, 12, and 15 is:

- A: 99960
- B: 99920
- C: 99900
- D: 99840

2. A number when divided by 45, 60, and 75 leaves the same remainder. Find the least such number greater than 400.

- A: 450
- B: 600
- C: 900
- D: 1200

3. If the HCF of two numbers is 13 and their sum is 143, find the possible pair of numbers.

- A: 26 and 117
- B: 39 and 104
- C: 52 and 91
- D: 65 and 78

4. If the HCF of two numbers is 14 and their product is 1176, what is their LCM?

- A: 84
- B: 88
- C: 90
- D: 96

5. If the ratio of two numbers is 4:5 and their HCF is 6, find their LCM.

- A: 120
- B: 150
- C: 180

D: 300

6. If the HCF of two numbers is 4 and their LCM is 72, find the numbers whose sum is 44.

A: 8 and 36

B: 12 and 32

C: 16 and 28

D: 18 and 26

7. The LCM of two co-prime numbers is equal to:

A: Their HCF

B: Their product

C: Their sum

D: Their difference

8. The largest number that divides 1251, 9377, and 15628 leaving the same remainder is:

A: 74

B: 78

C: 82

D: 86

9. Find the largest number which divides 245 and 1029 leaving the same remainder.

A: 7

B: 14

C: 21

D: 28

10. What is the smallest number which leaves remainders 2, 3, and 4 when divided by 3, 4, and 5 respectively?

A: 59

B: 59 + 60

C: 59 + 120

D: $59 + 240$

11. Find the HCF of 3.6, 1.2, and 0.9.

A: 0.3

B: 0.6

C: 0.9

D: 1.2

12. The least number of identical square tiles required to pave a floor of 36 m by 48 m is:

A: 6

B: 8

C: 9

D: 12

13. If the HCF of two numbers is 8 and their LCM is 480, find the possible pair.

A: (16, 240)

B: (24, 160)

C: (32, 120)

D: (48, 80)

14. Find the smallest number that is divisible by 9 and 12 and also by both 7 and 8.

A: 504

B: 432

C: 504×2

D: 720

15. If two numbers have $\text{HCF} = 18$ and $\text{LCM} = 540$, and one number is 90, find the other number.

A: 54

B: 108

C: 120

D: 135

16. If the HCF and LCM of two numbers are 3 and 180 respectively, and one of them is 45, find the other.

A: 9

B: 12

C: 15

D: 12×3

17. The smallest square number divisible by 8, 12, and 20 is:

A: 3600

B: 14400

C: 900

D: 1600

18. The HCF of 1.5 and 0.9 is equal to:

A: 0.1

B: 0.3

C: 0.6

D: 0.9

19. Find the smallest number that when increased by 1 becomes divisible by both 8 and 12.

A: 23

B: 24

C: 47

D: 95

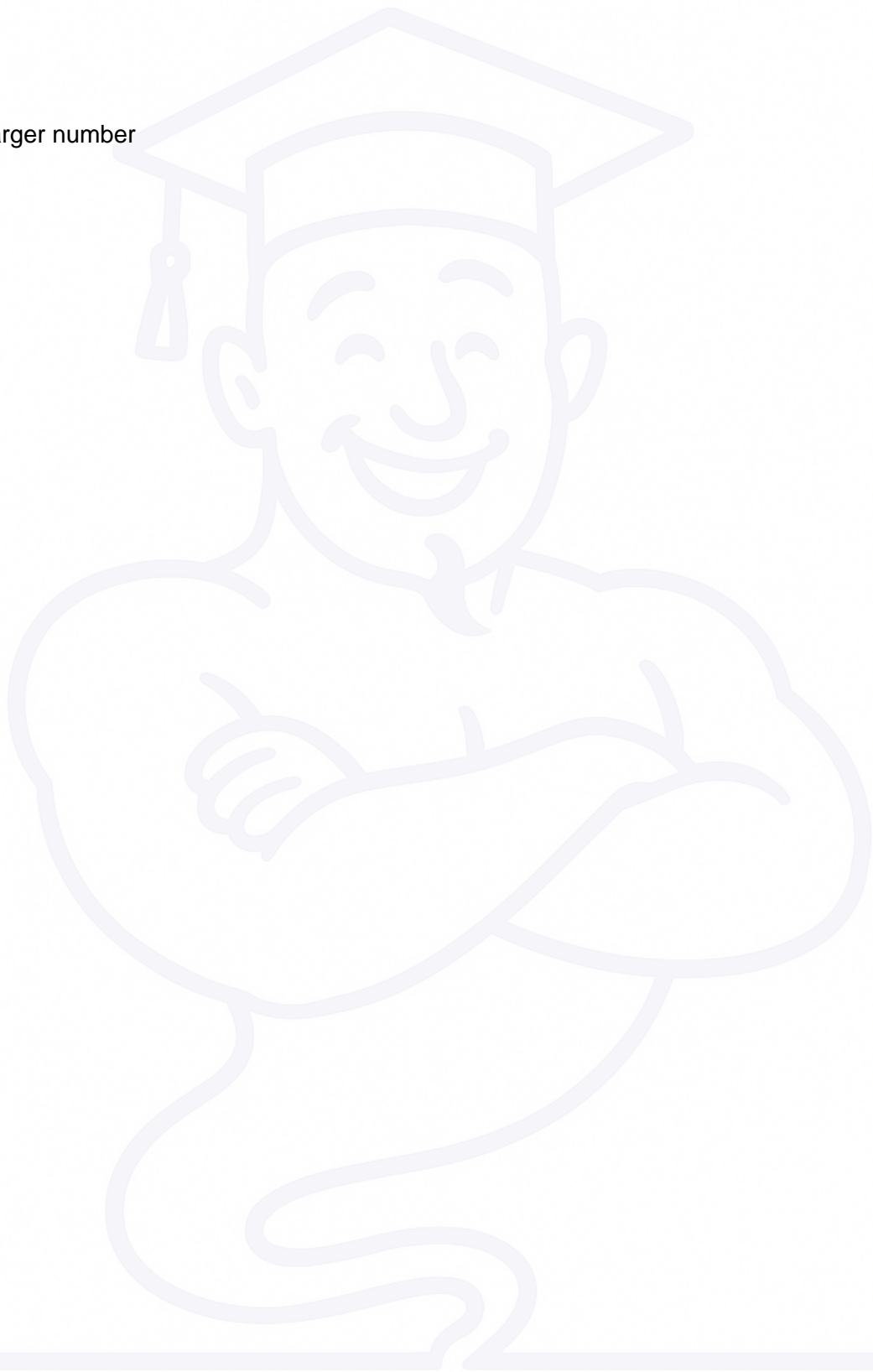
20. The HCF of two consecutive even numbers is always:

A: 1

B: 2

C: The smaller number

D: The larger number



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Answer Sheet

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

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