MATHS

BOOKS - MBD NCERT SOLUTIONS

REAL NUMBERS

Multiple Choice Questions

1. The relation between H.C.F. and L.C.M of 12 and 20 will be

A. H.C.F gt L. C. M

B. H.C.F lt L. C. M

C. H.C.F = L. C. M

D. None of these

Answer: B

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2. If a and b are two positive integers, then the relation between their L.C.M and H.C.F will be :

A. L.C.M. gt H. C. F.

B. H.C.F gt L. C. M

C. H.C.F = L. C. M

D. None of these

Answer: A

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3. The relation between L.C.M. and H.C.F. of two

positive integers will be

A. H.C.F gt L. C. M

B. H.C.F = L. C. M

C. L.C.M. gt H. C. F.

D. None of these

Answer: C

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4. If g and l are L.C.M. and H.C. F. of two

positive integers, then the relation will be :

A. g gt l

B. g lt l

C. g = l

D. None of these

Answer: A

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5. Given that HCF (306, 657) = 9, find LCM (306, 657).

A. 2482

B. 22338

C. 2754

D. 5913

Answer: B

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6. Find the HCF of 96 and 404 by the prime factorisation method. Hence, find their LCM.

A. 38784

B. 9696

C. 2274

D. None of these

Answer: B

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7. If H.C.F. of 13 and 225 is 45, then their L.C.M.
is :

A. 405

B. 1125

C. 65

D. None of these

Answer: C

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8. If H.C.F. of 124 and 148 is 4, then their L.C.M. is :

A. 1147

B. 18352

C. 4588

D. None of these

Answer: C

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9. Prove that $\sqrt{5}$ is an irrational number.

A. Rational number

B. Whole number

C. Natural number

D. Irrational number

Answer: D

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10. The H.C.F. of 64 and 96 will be :

A. 12

B. 16

C. 18

D. 32

Answer: D

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11. Find the irrational number from the following L

A. $\sqrt{9}$

B. $\sqrt{14}$

C. $\sqrt{25}$

D. $\sqrt{36}$

Answer: B

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12. If H.C.F. of 56 and 98 is 14, then its L.C.M. will be

A. 56

B. 98

C. 392

D. 784

Answer: C

13. L.C.M of 72 and 120 is

A. 240

B. 360

C. 120

D. 152

Answer: B

14. H.C.F. of 54 and 336 is :

A. 9

B. 3

C. 6

D. 18

Answer: C

15. Find the LCM and HCF of 26 and 91

A. 7

B. 13

C. 26

D. None of these

Answer: B

16. Which is the rational number from the following ?

A. $\sqrt{7}$

B. $\sqrt{8}$

C. $\sqrt{9}$

D. $\sqrt{10}$

Answer: C

17. L.C.M. of 45 and 75 is:

A. 215

B. 225

C. 205

D. 235

Answer: B

18. H.C.F. of 36 and 78 is :

A. 8

B. 4

C. 3

D. 6

Answer: D

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Very Short Answer Types Questions

1. Express 0.375 in the form $\frac{p}{q}$.

2. Express 0.014 in the from $\frac{p}{q}$.

3. Express 0.15 in the form of $\frac{p}{q}$.

4. Express 15.75 in the form of $\dfrac{p}{q}$

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Short Answer Types Questions

1. Use Euclid's division algorithm to find the HCF of (i) 135 and 225 (ii) 196 and 38220 (iii) 867 and 255

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2. Use Euclid's division algorithm to find the HCF of (i) 135 and 225 (ii) 196 and 38220 (iii) 867 and 255

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3. Express each of the following positive integers as the product of its prime factors. 3825 (ii) 5005 (iii) 7429

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4. Find the LCM and HCF of the following pairs and verify that

HCF × LCM= product of the given two numbers

(i) 36 and 48 (ii) 60 and 80

5. Find the LCM and HCF of the following pairs of integers and verify that $LLCM \times HCF =$ product of the two numbers.(i) 26 and91 (ii) 510 and 92 (iii) 336 and 54

6. Find the L.C.M and H.C.F. of 12, 15 and 12 by applying the prime factorisation method.

7. Prove that $\sqrt{2}$ is an irrational number.

8. Prove that $\sqrt{5}$ is an irrational number.

9. Prove that $3 - \sqrt{5}$ is an irrational number

10. Prove that $2\sqrt{3}$ is an irrational number

11. .Prove that $3 + 2\sqrt{5}$ is an irrational number.