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CBSE 10th Real Number Unsolved Paper

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Note

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Question 1:

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Use Euclid's division algorithm to find the HCF of:

- (i) 135 and 225
 (ii) 196 and 38220
- (iii) 867 and 225

Question 2:

Use Euclid's division lemma to show that the square of any positive integer is either of form 3m or 3m + 1 for some integer *m*.

Hint: let x be any positive integer then it is of the form 3q, 3q + 1 or 3q + 2. Now square each of these and show that they can be rewriteen in the fomr 3m or 3m + 1

Question 3:

Use Euclid's division lemma to show that the cube of any positive integer is of the form 9m, 9m + 1 or 9m + 8.

Question 4:

Find the LCM and HCF of the following pairs of integers and verify that

 $LCM \times HCF = product of the two numbers.$

(i)	26 and 91
(ii)	510 and 92
(iii)	336 and 54

Question 5:

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Find the LCM and HCF of the following integers by applying the prime factorization method.

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(i) 12, 15 and 21 (ii) 17, 23 and 29 (iii) 2.2 125

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(iii) 8,9 and 25

Question 6:

Prove that $\sqrt{5}$ is irrational.

Question 7:

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

Question 8:

Prove that the following are irrationals:

2

(i)	$\frac{1}{\sqrt{2}}$
(ii)	$7\sqrt{5}$
(iii)	6 + √

Question 9:

Show that any positive odd integer is of the form 6q + 1 or, 6q + 3 or, 6q + 3

5, where q is some integer.

Question 10:

Prove that the square of any positive integer is of the form 4q or 4q + 1 for some integer q.

Q.11 Prove that if a positive integer is of the form 6q + 5, then it is of the form 3q + 2 for some integer q, but not conversely.

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- Q.12 Prove that the product of three consecutive positive integer is divisible by 6.
- Q.13 For any positive integer n , prove that n^3 n divisible by 6.
- Q.14 Define HOE of two positive integers and find the HCF of the following pairs of numbers:
- (i) 32 and 54

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- (ii) 18 and 24
- (iii) 70 and 30
- (iv) 56 and 88
- (v) 475 and 495
- Q.15 Use Euclid's division algorithm to find the HCF of
 - (i) 135 and 225 (ii) 196 and 38220
- Q.17 If the HCF of 408 and 1032 is expressible in the form 1032 m 408 \times 5, find m.
- Q.18 If the HCF of 657 and 963 is expressible in the form 657 x + 963 x 15, find x.
- Q.19 Find the largest number which divides 615 and 963 leaving remainder 6 in each case.
- Q.20 Find the greatest number which divides 285 and 1249 leaving remainders 9 and 7 respectively.
- Q.21 Find the largest number which exactly divides 280 and 1245 leaving remainders 4 and 3, respectively.

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