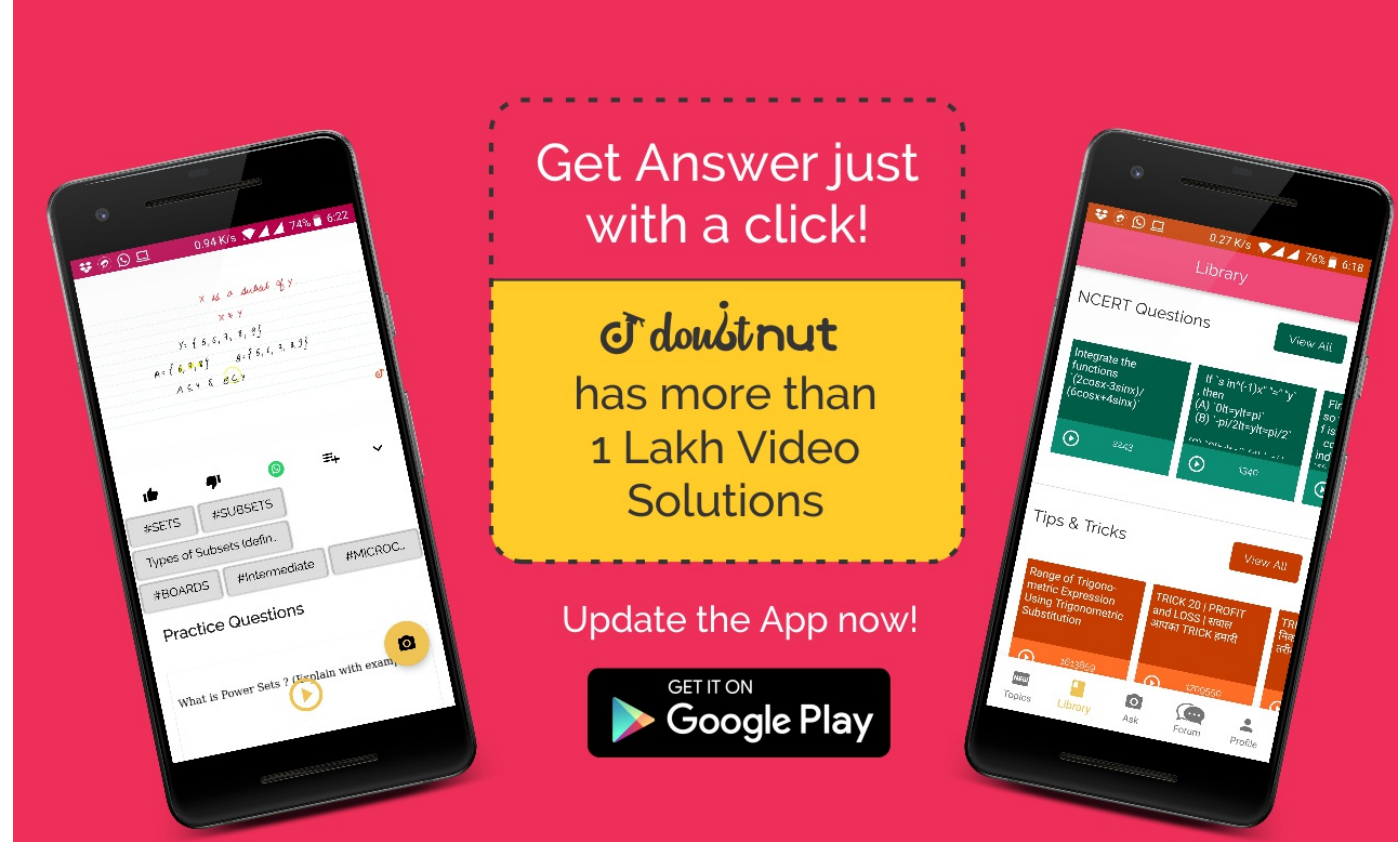


Ques No.	Question
1	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.1 - Q 1 Use Euclid's division algorithm to find the HCF of (i) 135 and 225 (ii) 196 and 38220 (iii) 867 and 255 ▶ Watch Free Video Solution on Doubtnut
2	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.1 - Q 2 Show that any positive odd integer is of the form $6q + 1$ or $6q + 3$ or $6q + 5$, where q is some integer. ▶ Watch Free Video Solution on Doubtnut
3	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.1 - Q 3 An army contingent of 616 members is to march behind an army band of 32 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march? ▶ Watch Free Video Solution on Doubtnut
4	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.1 - Q 4 Use Euclid's division lemma to show that the square of any positive integer is either of the 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 ▶ Watch Free Video Solution on Doubtnut
5	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.1 - Q 5 Use Euclid's division lemma to show that the cube of any positive integer is of the form $9m$, $9m + 1$ or $9m + 8$. ▶ Watch Free Video Solution on Doubtnut



6

NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.2 - Q 1

Express each number as a product of its prime factors (i) 140 (ii) 156
(iii) 3825 (iv) 5005 (v) 7429

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7

NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.2 - Q 2

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

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8

NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.2 - Q 3

Find the LCM and HCF of the following integers by applying the prime factorisation method. (i) 12, 15 and 21 (ii) 17, 23 and 29 (iii) 8, 9 and 25

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9

NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.2 - Q 4

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

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10

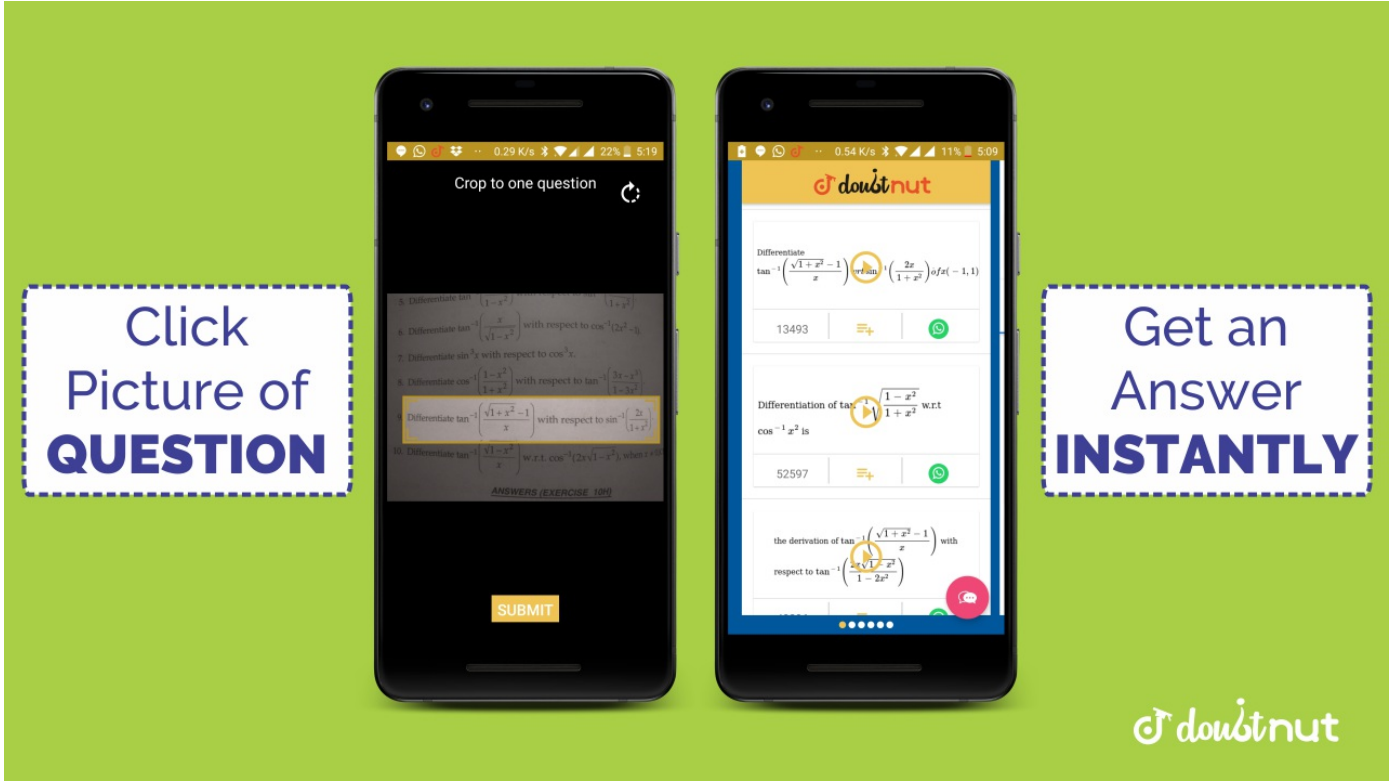
NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.2 - Q 5

Check whether 6^n can end with the digit 0 for any natural number n .

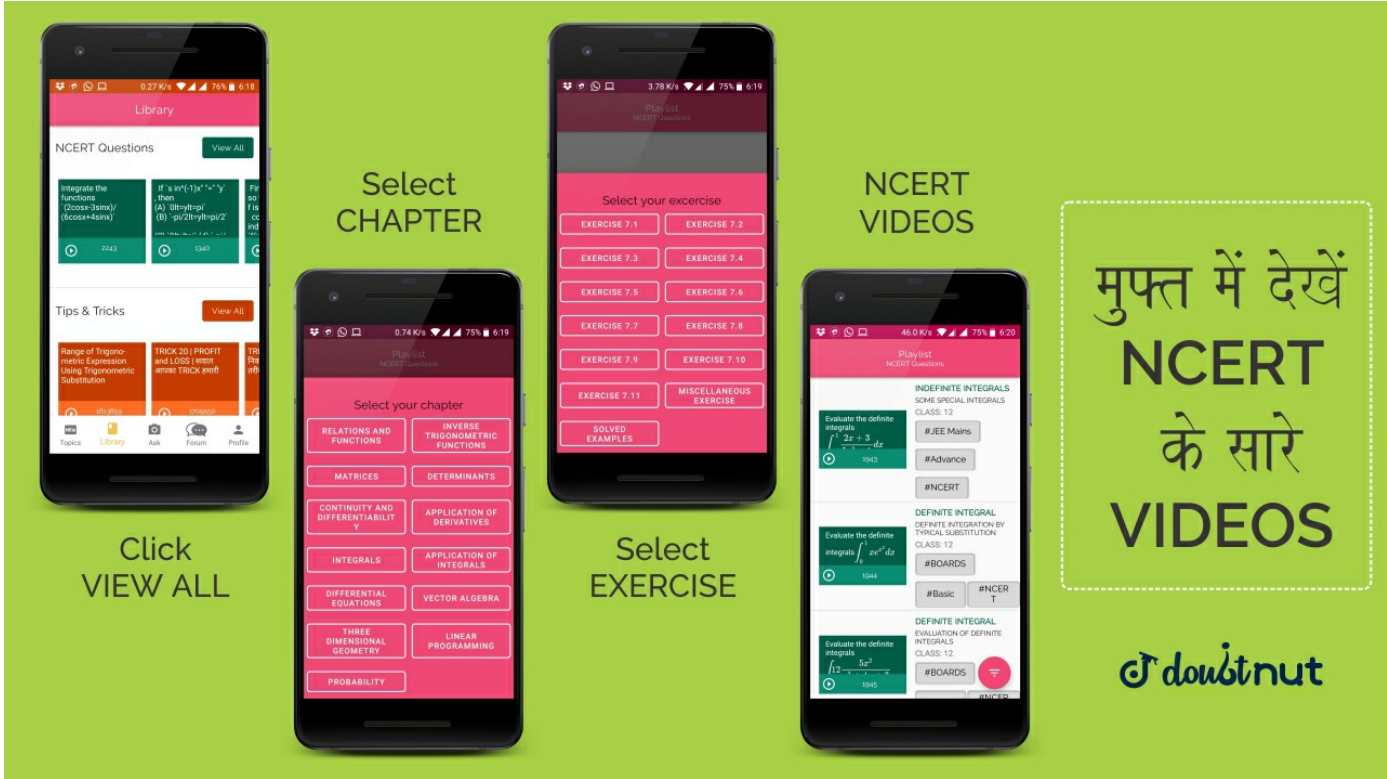
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NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.2 - Q 6

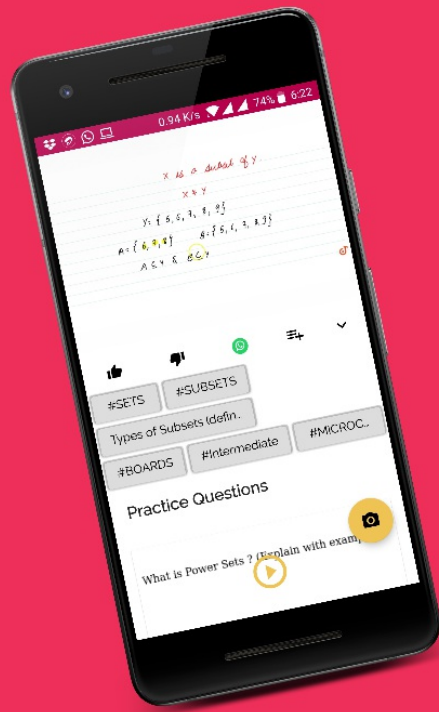
Explain why $7 \times 11 \times 13 + 13$ and

11	$7 \times 6 \times 5 \times 4 \times 3$ $\times 2 \times 1 + 5$ are composite numbers. ▶ Watch Free Video Solution on Doubtnut
	
12	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.2 - Q 7 There is a circular path around a sports field. Soma takes 18 minutes to drive one round of the field, while Ravi takes 12 minutes for the same. Suppose they both start at the same point and at the same time, and go in the same direction. After how many minutes will they meet again at the starting point? ▶ Watch Free Video Solution on Doubtnut
13	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.3 - Q 1 Prove that $\sqrt{5}$ is irrational. ▶ Watch Free Video Solution on Doubtnut
14	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.3 - Q 2 Prove that $3 + 2\sqrt{5}$ is irrational : ▶ Watch Free Video Solution on Doubtnut
15	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.3 - Q 3 Prove that the following are irrationals : (i) $\frac{1}{\sqrt{2}}$ (ii) $7\sqrt{5}$ (iii) $6 + \sqrt{2}$ ▶ Watch Free Video Solution on Doubtnut
	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.4 - Q 1 Without actually performing the long division, state whether the following rational

16	numbers will have a terminating decimal expansion or a non-terminating repeating decimal expansion: (i) $\frac{13}{3125}$ (ii) $\frac{17}{8}$ (iii) $\frac{64}{455}$ (iv) $\sqrt{15}$ ▶ Watch Free Video Solution on Doubtnut
17	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.4 - Q 2 Write down the decimal expansions of those rational numbers in Question 1 above which have terminating decimal expansions. ▶ Watch Free Video Solution on Doubtnut
	
18	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - EXERCISE 1.4 - Q 3 The following real numbers have decimal expansions as given below. In each case, decide whether they are rational or not. If they are rational, and of the form $\frac{p}{q}$, what can you say about the prime factors of q? (i) 43.123456789 (ii) $0.\overline{1201}$ ▶ Watch Free Video Solution on Doubtnut
19	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 1 Use Euclid's algorithm to find the HCF of 4052 and 12576. ▶ Watch Free Video Solution on Doubtnut
20	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 2 Show that every positive even integer is of the form $2q$, and that every positive odd integer is of the form $2q + 1$, where q is some integer. ▶ Watch Free Video Solution on Doubtnut
	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 3 Show that any positive odd integer is of the form $4q + 1$ or $4q + 3$, where q is some

21	integer. ▶ Watch Free Video Solution on Doubtnut
22	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 4 A sweet seller has 420 kaju barfis and 130 badam barfis. She wants to stack them in such a way that each stack has the same number and they take up the least area of the tray. What is the maximum number of barfis that can be placed in each stack for this purpose? ▶ Watch Free Video Solution on Doubtnut
23	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 5 Consider the numbers 4^n, where n is a natural number. Cheek whether there is any value of n for which 4^n ends with the digit zero. ▶ Watch Free Video Solution on Doubtnut
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25	Find the HCF of 96 and 404 by the prime factorisation method. Hence, find their LCM. 🎥 Watch Free Video Solution on Doubtnut
26	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 8 Find the HCF and LCM of 6, 72 and 120, using the prime factorisation method. 🎥 Watch Free Video Solution on Doubtnut
27	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 9 Prove that $\sqrt{3}$ is irrational. 🎥 Watch Free Video Solution on Doubtnut
28	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 10 Show that $5 - \sqrt{3}$ is irrational. 🎥 Watch Free Video Solution on Doubtnut
29	NCERT - CLASS 10 - CHAPTER 1 REAL NUMBERS - SOLVED EXAMPLES - Q 11 Show that $3\sqrt{2}$ is irrational. 🎥 Watch Free Video Solution on Doubtnut
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