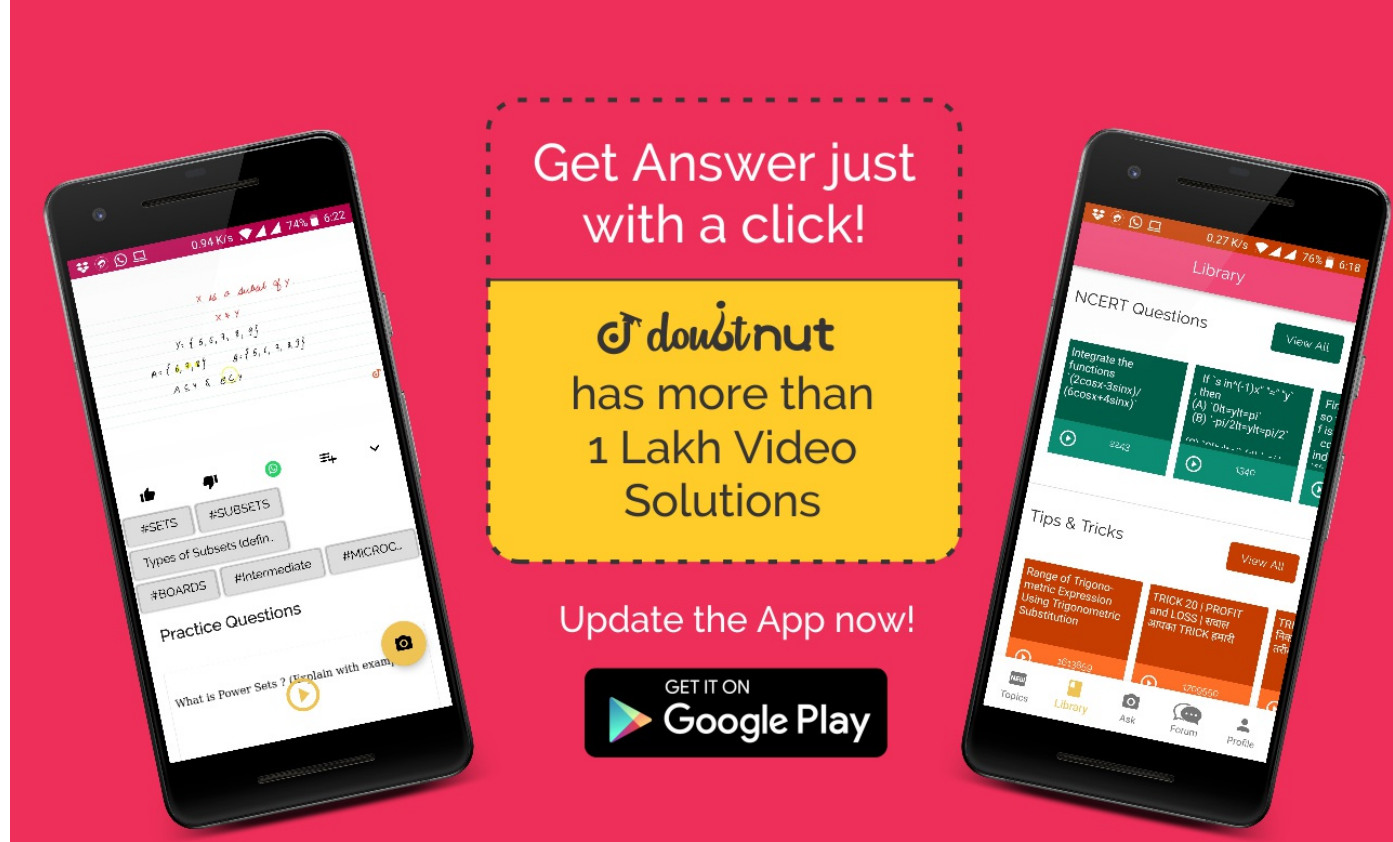


Ques No.	Question
1	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.1 - Q 1</b></p> <p>Find the value of : (i) <math>2^6</math> (ii) <math>9^3</math> (iii) <math>11^2</math> (iv) <math>5^4</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>
2	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.1 - Q 2</b></p> <p>Express the following in exponential form : (i) <math>6 \times 6 \times 6 \times 6</math> (ii) <math>t \times t</math> (iii) <math>b \times b \times b \times b</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>
3	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.1 - Q 3</b></p> <p>Express each of the following numbers using exponential notation: (i) 512 (ii) 343 (iii) 729 (iv) 3125</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>
4	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.1 - Q 4</b></p> <p>Identify the greater number, wherever possible, in each of the following ? (i) <math>4^3</math> or <math>3^4</math> (ii) <math>5^3</math> or <math>3^5</math> (iii) <math>2^8</math> or <math>8^2</math> (iv) <math>100^2</math> or <math>2^{100}</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>
5	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.1 - Q 5</b></p> <p>Express each of the following as product of powers of their prime factors: (i) 648 (ii) 405 (iii) 540 (iv) 3,600</p> <p><a href="#">▶ Watch Free Video Solution on Doubtnut</a></p>



6	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.1 - Q 6</b></p> <p>Simplify : (i) <math>2 \times 10^3</math> (ii) <math>7^2 \times 2^2</math> (iii) <math>2^3 \times 5</math> (iv) <math>3 \times 4^4</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubt nut</a></p>
7	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.1 - Q 7</b></p> <p>Simplify : (i) <math>(-4)^3</math> (ii) <math>(-3) \times (-2)^3</math> (iii) <math>(-3)^2 \times (-5)^2</math> (iv) <math>(-2)^3 \times (-10)^3</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubt nut</a></p>
8	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.1 - Q 8</b></p> <p>Compare the following numbers : (i) <math>27 \times 10^{12}</math>, <math>15 \times 10^8</math> (ii) <math>4 \times 10^{14}</math>, <math>3 \times 10^{17}</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubt nut</a></p>
9	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.2 - Q 1</b></p> <p>Using laws of exponents, simplify and write the answer in exponential form : (i) <math>3^2 \times 3^4 \times 3^8</math> (ii) <math>\frac{6^{15}}{6^{10}}</math></p> <p><a href="#">▶ Watch Free Video Solution on Doubt nut</a></p>
10	<p><b>NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.2 - Q 2</b></p> <p>Simplify and express each of the following in exponential form: (i) <math>\frac{2^3 \times 3^4 \times 4}{3 \times 32}</math> (ii)</p>

$$(5^2)^3 \times 5^4 5^7$$

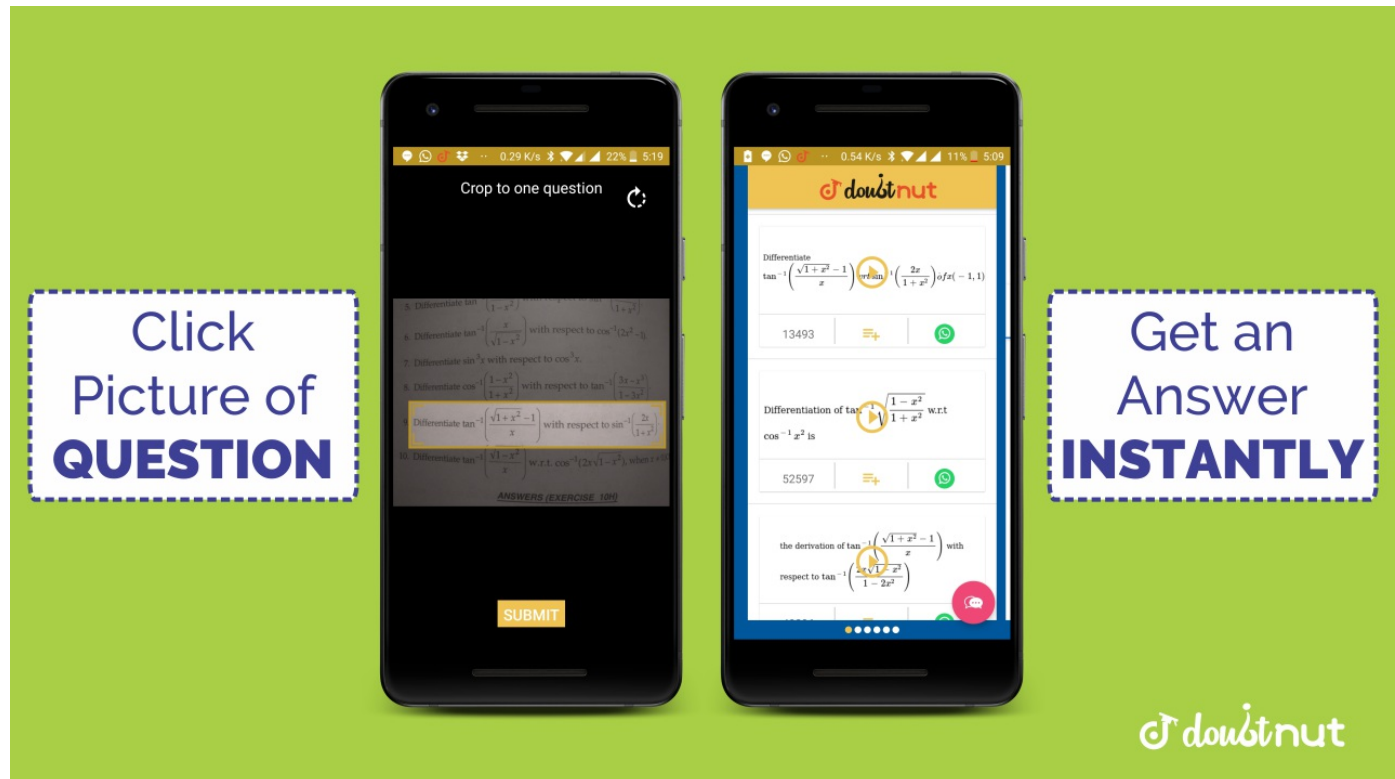
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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.2 - Q 3**

Say true or false and justify your answer : (i)  $10 \times 10^{11} = 100^{11}$  (ii)  $2^3$  If  $5^2$  (iii)  $2^3 \times 3^2 = 6^5$

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.2 - Q 4**

Express each of the following as a product of prime factors only in exponential form: (i)  $108 \times 192$  (ii) 1270 (iii)  $729 \times 64$  (iv) 768

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.2 - Q 5**

Simplify: (i)  $\frac{(2^5)2 \times 7^3}{8^3 \times 7}$  (ii)  $\frac{25 \times 5^2 \times t^8}{10^3 \times t^4}$

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.3 - Q 1**

Write the following numbers in the expanded forms: 279404, 3006194, 2806196, 120719, 20068

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.3 -**

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Q 2

Find the number from each of the following expanded forms : (a)

$$8 \times 10^4 + 6 \times 10^3 + 0 \times 10^2$$

$$+ 4 \times 10^1 + 5 \times 10^0$$

(b)

$$4 \times 10^5 + 5 \times 10^3 + 3 \times 10^2$$

$$+ 2 \times 10^0$$

$$(c) 3 \times 10^4 + 7 \times 10^2 + 5 \times 10^0$$

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.3 - Q 3**

Express the following numbers in standard form: (i) 5,00,00,000 (ii) 70,00,000 (iii) 3,18,65,00,000 (iv) 3,90,878 (v) 39087.8 (vi) 3908.78

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - EXERCISE 13.3 - Q 4**

Express the number appearing in the following statements in standard form. (a) The distance between Earth and Moon is 384,000,000 m. (b) Speed of light in vacuum is 300,000,000 m/s. (c) Diameter of the Earth is 1,27,56,000 m. (d) Diameter of the Sun is 1,400,000,000 m. (e) In a galaxy there are on an average 100,000,000,000 stars. (f) The universe is estimated to be about 12,000,000,000 years old. (g) The distance of the Sun from the centre of the Milky Way Galaxy is estimated to be 300,000,000,000,000,000,000 m. (h) 60,230,000,000,000,000,000,000 molecules are contained in a drop of water weighing 1.8 gm. (i) The earth has 1,353,000,000 cubic km of sea water. (j) The population of India was about 1,027,000,000 in March, 2001.

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 1**

Express 256 as a power 2.

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 2**

Which one is greater  $2^3$  or  $3^2$  ?

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 3**

which one is greater  $8^2$  or  $2^8$  ?

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 4**

Expand .  $a^3b^2$ ,  $a^2b^3$ ,  $b^2a^3$ ,  $b^3a^2$  Are they all same ?

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 5**

Express the following numbers as a product of powers of prime factors: (i) 72 (ii) 432 (iii) 1000 (iv) 16000

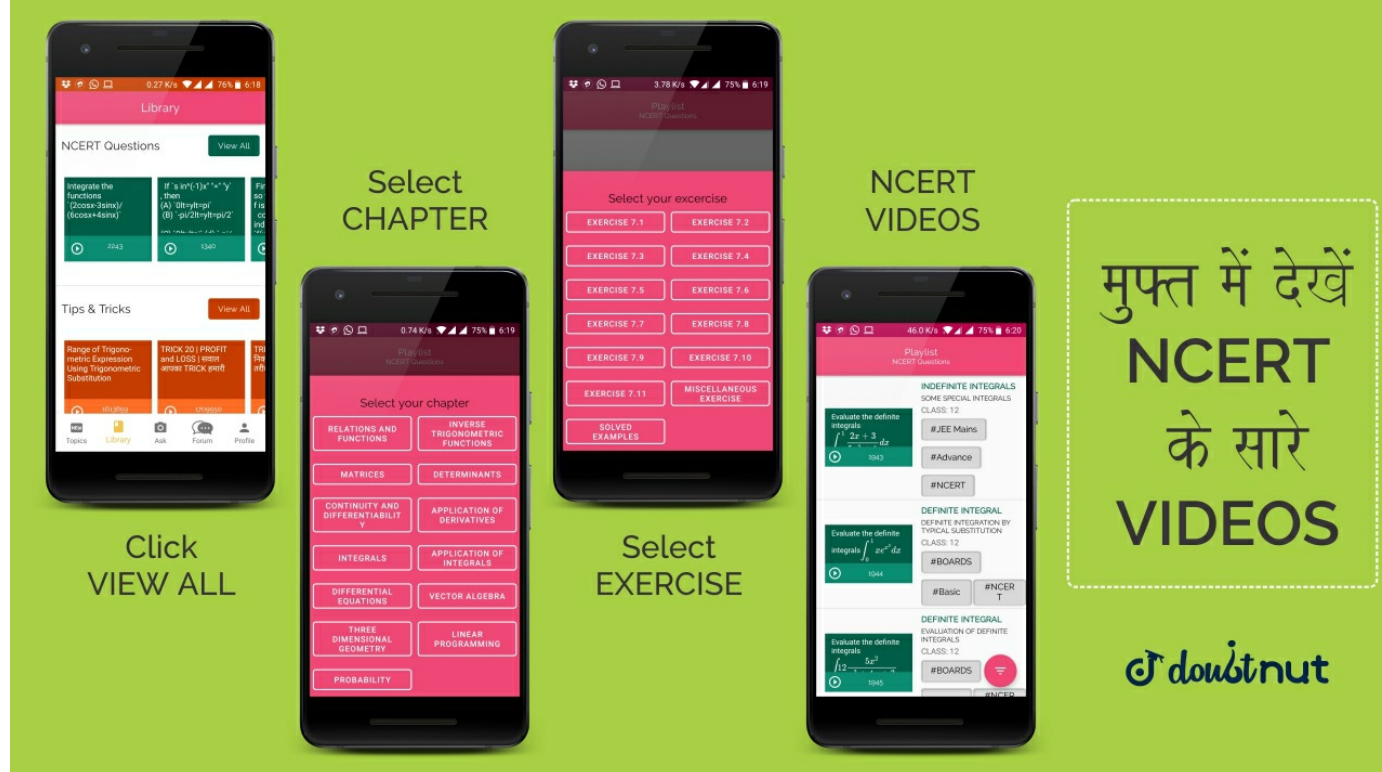
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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 6**

Work out  
 $(1)^5$ ,  $(-1)^3$ ,  $(-1)^4$ ,  
 $(-10)^3$ ,  $(-5)^4$

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 7**

Can you tell which one is greater  $(5^2) \times 3$  or  $(5^2)63$  ?

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 8**

Example 7. Can you tell which one is greater  $(5^2) \times 3$  or  $(5^2)^5$  ? Example 8. Express the following terms in the exponential form : (i)  $(2 \times 3)^5$  (ii)  $(2a)^4$  (iii)  $(-4m)^3$

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 9**

Expand : (i)  $\left(\frac{3}{5}\right)^4$  (ii)  $\left(\frac{4}{7}\right)^5$

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 10**

Write exponential form for  $8 \times 8 \times 8 \times 8$  taking base as 2.

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 11**

Simplify and write the answer in the exponential form. (i)  $\left(\frac{3^7}{3^2}\right) \times 3^5$  (ii)  $2^3 \times 2^2 \times 5^5$

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 12**

Simplify : (i)  $\frac{12^4 + 9^3 \times 4}{6^3 \times 8^2 \times 27}$  (ii)  $2^3 \times a^3 \times 5a^4$

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**NCERT - CLASS 7 - CHAPTER 13 EXPONENTS AND POWERS - SOLVED EXAMPLES - Q 13**

Express the following numbers in the standard form: (i) 5985.3 (ii) 65,950 (iii) 3,430,000 (iv) 70,040,000,000

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