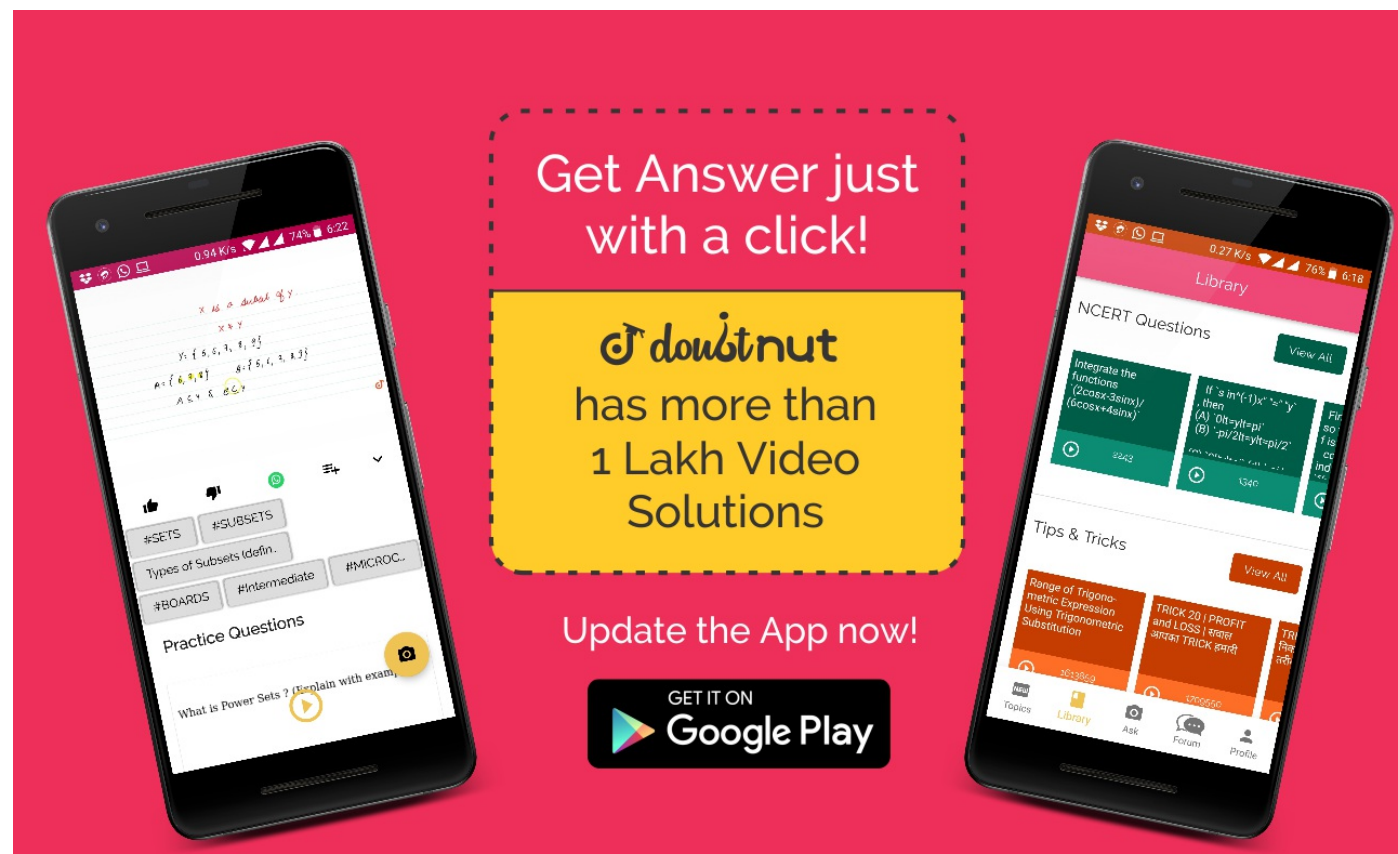


| Ques No. | Question |
|----------|---|
| 1 | <p>NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.1 - Q 1</p> <p>Solve (i) $2 - \frac{3}{5}$ (ii) $4 + \frac{7}{8}$ (iii) $\frac{3}{5} + \frac{2}{7}$ (iv) $\frac{9}{11} - \frac{4}{5}$ (v) $\frac{7}{10} + \frac{2}{5} + \frac{3}{2}$ (vi) $\frac{2}{3} + \frac{1}{2}$ (vii) $\frac{1}{2} - \frac{5}{8}$</p> <p>Watch Free Video Solution on Doubtnut</p> |
| 2 | <p>NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.1 - Q 2</p> <p>Arrange the following in descending order : (i) $\frac{2}{9}, \frac{2}{3}, \frac{8}{21}$ (ii) $\frac{1}{5}, \frac{3}{7}, \frac{7}{10}$</p> <p>Watch Free Video Solution on Doubtnut</p> |
| 3 | <p>NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.1 - Q 3</p> <p>In a “magic square”, the sum of the numbers in each row, in each column and along the diagonal is the same. Is this a magic square?</p> <p>Watch Free Video Solution on Doubtnut</p> |
| 4 | <p>NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.1 - Q 4</p> <p>A rectangular sheet of paper is $(12)\frac{1}{2}cm$ long and $(10)\frac{2}{3}cm$ wide. Find its perimeter.</p> <p>Watch Free Video Solution on Doubtnut</p> |
| 5 | <p>NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.1 - Q 5</p> <p>Find the perimeters of (i) $\triangle ABE$ (ii) the rectangle $BCDE$ in this figure. Whose perimeter is greater ?</p> <p>Watch Free Video Solution on Doubtnut</p> |



NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.1 - Q 6

6

Salil wants to put a picture in a frame. The picture is $(7\frac{3}{5})$ cm wide. To fit the frame the picture cannot be more than $(7\frac{3}{10})$ cm wide. How much should the picture be trimmed ?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.1 - Q 7

7

Ritu ate $\frac{3}{5}$ part of an apple and the remaining apple was eaten by her brother Somu. How much part of the apple did Somu eat? Who had the larger share? By how much?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.1 - Q 8

8

Michael finished colouring a picture in $\frac{7}{12}$ hour. Vaibhav finished colouring the same picture in $\frac{3}{4}$ hour. Who worked longer ? By what fraction was it longer ?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.2 - Q 1

9

Which of the drawings (a) to (d) show : (i) $2 \times \frac{1}{5}$ (ii) $2 \times \frac{1}{2}$ (iii) $3 \times \frac{2}{3}$ (iv) $3 \times \frac{1}{4}$

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.2 - Q 2

10

Some pictures (a) to (c) are given below. Tell which of them show (i) $3 \times \frac{1}{5} = \frac{3}{5}$ (ii) $2 \times \frac{1}{3} = \frac{2}{3}$ (iii) $3 \times \frac{3}{4} = (2)\frac{1}{4}$

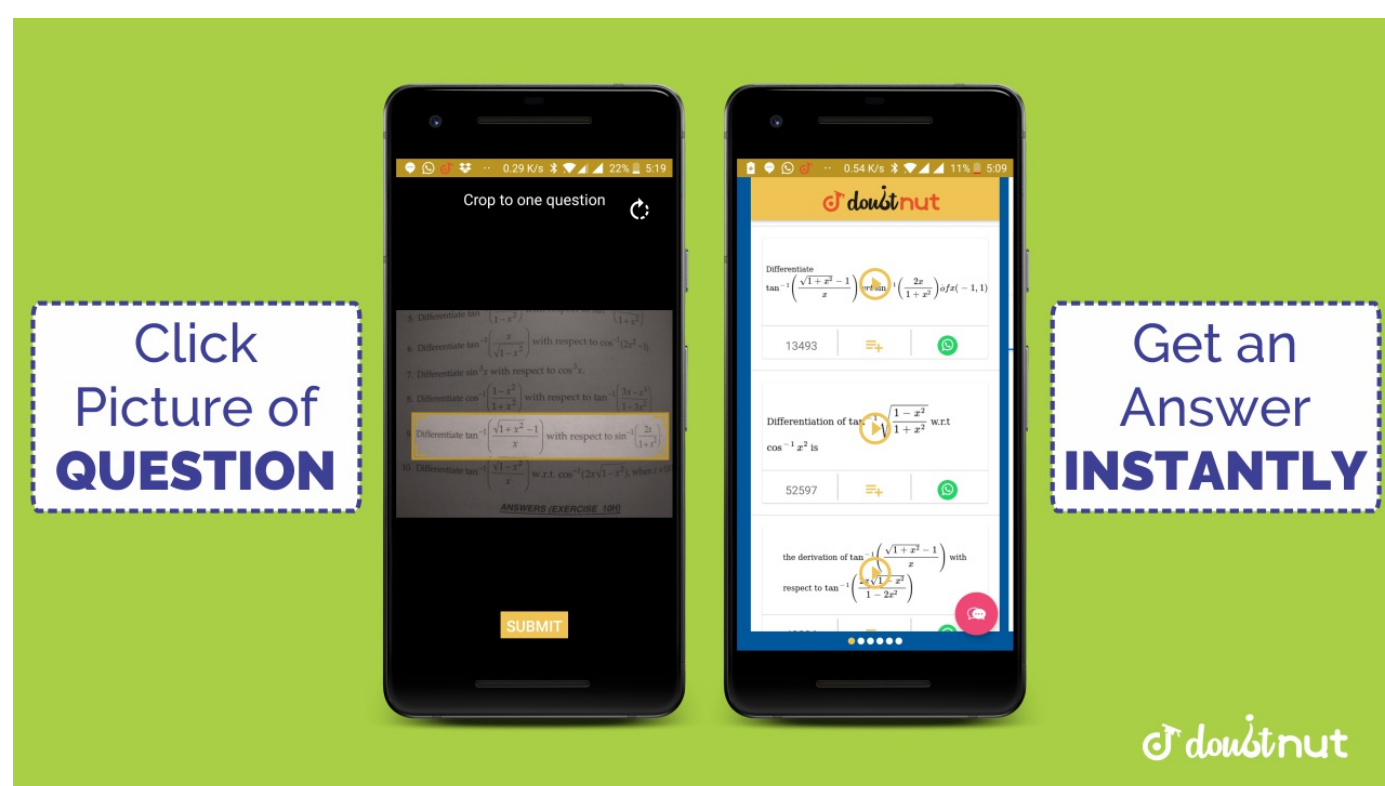
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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.2 - Q 3

11

Multiply and reduce to lowest form : (i) $7 \times \frac{3}{5}$ (ii) $4 \times \frac{1}{3}$ (iii) $2 \times \frac{6}{7}$ (iv) $\frac{2}{3} \times 4$ (v) $\frac{5}{2} \times 6$ (vi) $(11)\frac{4}{7}$ (vii) $20 \times \frac{4}{5}$ (viii) $13 \times \frac{1}{3}$ (ix) $15 \times \frac{3}{5}$

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12

Find : (a) $\frac{1}{2}$ of (i) 24 (ii) 46 (b) $\frac{2}{3}$ of (i) 18 (c) 27 (d) $\frac{3}{4}$ of (i) 36 (d) $\frac{4}{5}$ of (i) 20 (ii) 35

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.2 -

13

Q 6

Multiply and express as a mixed fraction : (a) $3 \times (5)\frac{1}{5}$ (b) $5 \times (6)\frac{3}{4}$ (c) $7 \times (2)\frac{1}{4}$
 (d) $4 \times (6)\frac{1}{3}$ (e) $(3)\frac{1}{4} \times 6$ (f) $(3)\frac{2}{3} \times 8$

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.2 - Q 7

Find (i) $\frac{1}{2}$ of (ii) $(2)\frac{3}{4}$ (iii) $(4)\frac{2}{9}$ (iv) $\frac{5}{8}$ of (v) $(3)\frac{5}{6}$ (ii) $(9)\frac{2}{3}$

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.2 - Q 8

Vidya and pratap went from a picnic. their mother gave them a water bag that contained 5 litres of water. Vidya consumed $\frac{2}{5}$ of the water. Pratap consumed the remaining water. (i) How much water did Vidya drink? (ii) What fraction of the total quantity of water did Pratap drink?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.3 - Q 1

(i) $\frac{1}{4}$ of (a) $\frac{1}{4}$ (b) $\frac{3}{5}$ (c) $\frac{4}{3}$ (ii) $\frac{1}{7}$ of (a) $\frac{2}{9}$ (b) $\frac{6}{5}$ (c) $\frac{3}{10}$

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.3 - Q 2

i) $\frac{2}{3} \times (2)\frac{2}{3}$ (ii) $\frac{2}{7} \times \frac{7}{9}$ (iii) $\frac{3}{8} \times \frac{6}{4}$ (iv) $\frac{9}{5} \times \frac{3}{5}$ (v) $\frac{1}{3} \times \frac{15}{8}$ (vi) $\frac{11}{2} \times \frac{3}{10}$ (vii) $\frac{4}{5} \times \frac{12}{7}$

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.3 - Q 3

For the fractions given below : (a) Multiply and reduce the product to lowest form (if possible) (b) Tell whether the fraction obtained is proper or improper. (c) If the fraction obtained is improper then convert it into a mixed fraction. (i) $\frac{2}{5} \times (5)\frac{1}{4}$ (ii) $(6)\frac{2}{5} \times \frac{7}{9}$ (iii) $\frac{3}{2} \times (5)\frac{1}{3}$ (iv) $\frac{5}{6} \times (2)\frac{3}{7}$ (v) $(3)\frac{2}{5} \times \frac{4}{7}$ (vi) $(2)\frac{3}{5} \times 3$ (vii) $(2)\frac{3}{5} \times 3$ (viii) $(3)\frac{4}{7} \times \frac{3}{5}$

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.3 - Q 4

Which is greater : $\frac{2}{7}$ of $\frac{3}{4}$ or $\frac{3}{5}$ of $\frac{5}{8}$ (ii) $\frac{1}{2}$ of $\frac{6}{7}$ or $\frac{2}{3}$ of $\frac{3}{7}$

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20

NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.3 - Q 5

Saili plants 4 saplings, in a row, in her garden. The distance between two adjacent saplings is $\frac{3}{4}m$. Find the distance between the first and last sapling

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.3 - Q 6

Lipika reads a book for $(1)\frac{3}{4}$ hours every day. She reads the entire book in 6 days. How many hours in all were required by her to read the book?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.3 - Q 7

22

A car runs 16km using 1 litre of petrol. How much distance will it cover using $(2)\frac{3}{4}$ liters of petrol.

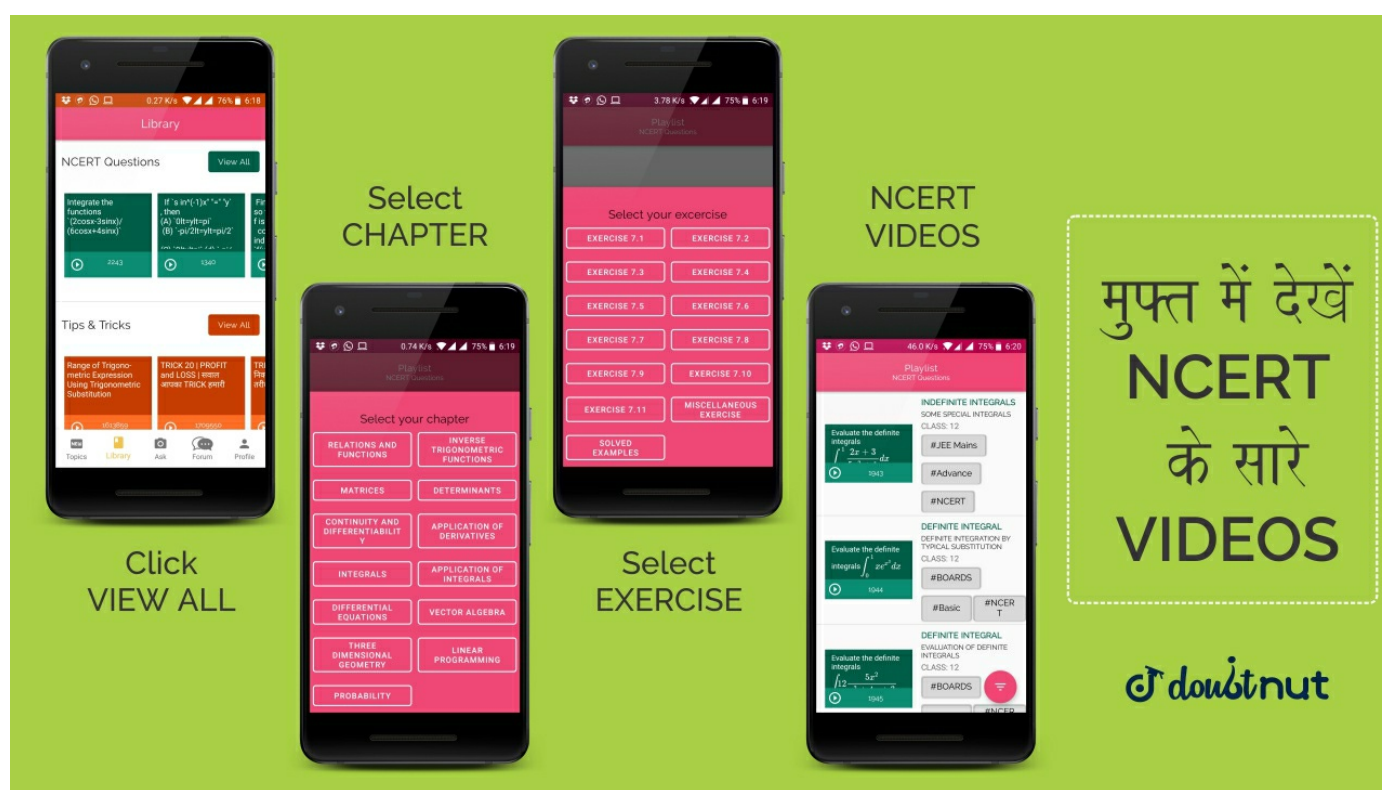
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23

(a) (i) Provide the number in the box , such that (ii) The simplest form of the number obtained in is _____. (b) (i) Provide the number in the box , such that (ii) The simplest form of the number obtained in is _____.

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24

Find: (i) $\frac{12}{\frac{3}{4}}$

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25

Find the reciprocal of each of the following fractions. Classify the reciprocals as proper fractions, improper fractions and whole numbers. (i) $\frac{3}{7}$ (ii) $\frac{5}{8}$ (iii) $\frac{9}{7}$ (iv) $\frac{6}{5}$ (v) $\frac{12}{7}$ (vi) $\frac{1}{8}$ (vii) $\frac{1}{11}$

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26

Q 3

Find : (i) $\frac{7}{3} \div 2$ (ii) $\frac{4}{9} \div 5$ (iii) $\frac{6}{13} \div 7$ (iv) $(4)\frac{1}{3} \div 3$ (v) $(3)\frac{1}{2} \div 4$ (vi) $(4)\frac{3}{7} \div 7$

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.4 - Q 4

Find the (i) $\frac{2}{5} \div \frac{1}{2}$ (ii) $\frac{4}{9} \div \frac{2}{3}$ (iii) $\frac{3}{7} \div \frac{8}{7}$ (iv) $(2)\frac{1}{3} \div \frac{3}{5}$ (v) $(3)\frac{1}{2} \div \frac{8}{3}$ (vi) $\frac{2}{5} \div (1)\frac{2}{3}$ (vii) $(3)\frac{1}{5} \div (1)\frac{2}{3}$ (viii) $(2)\frac{1}{5} \div (1)\frac{1}{5}$

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.5 - Q 1

Which is greater? (i) 0.5 or 0.05 (ii) 0.7 or 0.5 (iii) 7 or 0.7 (iv) 1.37 or 1.49 (v) 2.03 or 2.30 (vi) 0.8 or 0.88.

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.5 - Q 2

Express as rupees using decimals : (i) 7 paise rupees (ii) 7 rupees 7 paise (iii) 77 rupees (iv) 50 paise (v) 235 paise.

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.5 - Q 3

(i) Express 5 cm in metre and kilometre (ii) Express 35 mm in cm, m and km

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.5 - Q 4

Express in kg: (i) 200 g (ii) 3470 g (iii) 4 kg 8 g (iv) 2598 mg

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32

NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.5 - Q 5

Write the following decimal numbers in the expanded form: (i) 20.03 (ii) 2.03 (iii) 200.03 (iv) 2.034

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33

NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.5 - Q 6

Write the place value of 2 in the following decimal numbers: (i) 2.56 (ii) 21.37 (iii) 10.25 (iv) 9.42 (v) 63.352.

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.5 - Q 7

Dinesh went from place A to place B and from there to place C. A is 7.5 km from B and B is 12.7 km from C. Ayub went from place A to place D and from there to place C. D is 9.3 km from A and C is 11.8 km from D. Who travelled more and by how much?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.5 - Q 8

Shyama bought 5 kg 300 g apples and 3 kg 250 g mangoes. Sarala bought 4 kg 800 g oranges and 4 kg 150 g bananas. Who bought more fruits?

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How much less is 28 km than 42.6 km?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.6 - Q 1

Find: (i) 0.2×6 (ii) 8×4.6 (iii) 2.71×5 (iv) 20.1×4 (v) 0.05×7 (vi) 211.02×4 (vii) 2×0.86

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.6 - Q 2

Find the area of rectangle whose length is 5.7cm and breadth is 3 cm.

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.6 - Q 3

Find : (i) 368×10 (ii) 1537×10 (iii) 16807×10 (iv) 311×100 (v) 1561×100 (vi) 362×100 (vii) 4307×100 (viii) 05×10 (viiii) 09×100 (ix) 003×1000

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.6 - Q 4

A two-wheeler covers a distance of 55.3 km in one litre of petrol. How much distance will it cover in 10 litres of petrol?

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41

Find: (i) 2.5×0.3 (ii) 0.1×51.7 (iii) 0.2×316.8 (iv) 1.3×3.1 (v) 0.5×0.05 (vi) 11.2×0.15 (vii) 1.07×0.02 (viii) 10.05×1.05 (ix) 101.01×0.01 (x) 100.01×1.1

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.7 - Q 1

42

We have learnt about fractions and decimals alongwith the operations of addition and subtraction on them, in the earlier class

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.7 - Q 2

43

We now study the operations of multiplication and division on fractions as well as on decimals

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.7 - Q 3

44

We have learnt how to multiply fractions. Two fractions are multiplied by multiplying their numerators and denominators seperately and writing the product as product of numerators product of denominators . For example,

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.7 - Q 4

45

A fraction acts as an operator 'of'. For example, $\frac{1}{2}$ of 2 is $\frac{1}{2} \times 2 = 1$.

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46

NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.7 - Q 5

(a) The product of two proper fractions is less than each of the fractions that are multiplied. (b) The product of a proper and an improper fraction is less than the improper fraction and greater than the proper fraction. (c) The product of two improper fractions is greater than the two fractions.

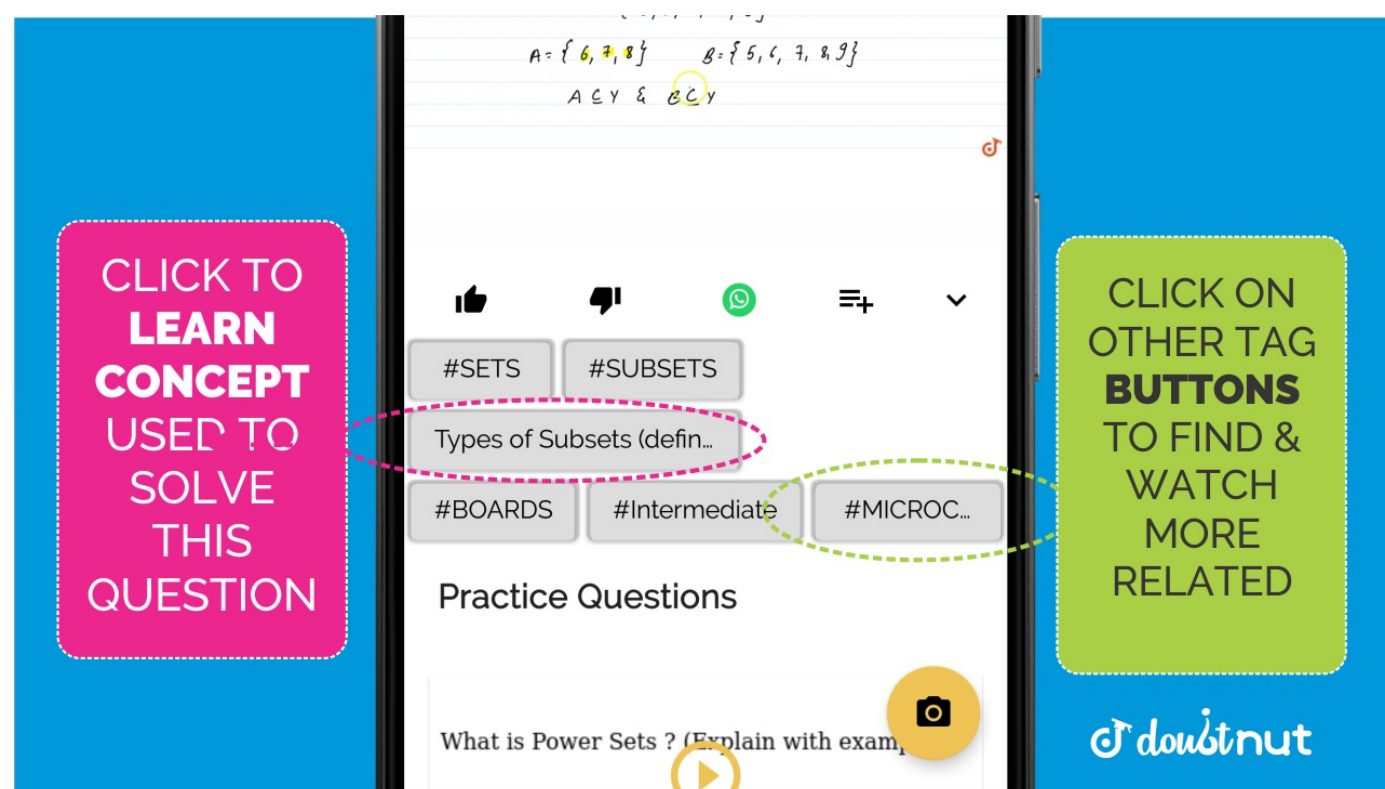
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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - EXERCISE 2.7 - Q 6

A reciprocal of a fraction is obtained by inverting it upside down.

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48

NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 1

Write five equivalent fractions of $\frac{3}{5}$.

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49

NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 2

Ramesh solved $\frac{2}{7}$ part of an exercise while Seema solved $\frac{4}{5}$ of it. Who solved lesser part?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED

EXAMPLES - Q 3

50

Sameera purchased $3\left(\frac{1}{2}\right)$ kg apples and $4\left(\frac{3}{4}\right)$ kg oranges. What is the total weight of fruits purchased by her?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 4

51

Suman studies for $(5)\frac{2}{3}$ hours daily. She devotes $(2)\frac{4}{5}$ hours of her time for Science and Mathematics. How much time does she devote for other subjects?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 5

52

In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English, $\frac{2}{5}$ of the total number like to study mathematics and the remaining students like to study Science.

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 6

53

Sushant reads $\frac{1}{3}$ part of a book in 1 hour. How much part of the book will he read in $2\left(\frac{1}{5}\right)$ hours?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 7

54

The side of an equilateral triangle is 3.5 cm. Find its perimeter

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 8

55

The length of a rectangle is 7.1 cm and its breadth is 2.5 cm. What is the area of the rectangle?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 9

56

Find the average of 4.2, 3.8 and 7.6.

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 10

57

Each side of a regular polygon is 2.5 cm in length. The perimeter of the polygon is 12.5cm. How many sides does the polygon have?

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NCERT - CLASS 7 - CHAPTER 2 FRACTIONS AND DECIMALS - SOLVED EXAMPLES - Q 11

58

A car covers a distance of 89.1 km in 2.2 hours. What is the average distance covered by it in 1 hour?

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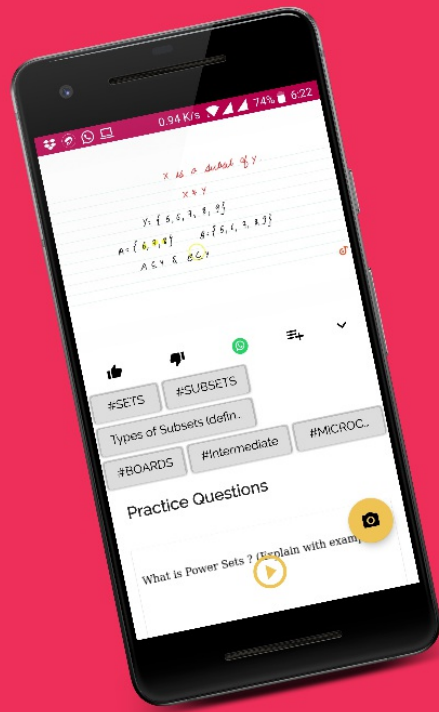
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