

Math course includes studying from D1 or Countdown books and reinforcement through our workbooks:

$$\left[\frac{2}{3} - \frac{1}{9}\right] \times \left[\frac{3}{6} + \frac{1}{3} \times 2\frac{1}{4}\right] =$$

$$\frac{9}{3} + \frac{7}{27} - \frac{8}{18} - \left[4\frac{5}{6} \times 9\frac{2}{8}\right] =$$

$$\sqrt[2]{36 + (9 + 4)} =$$

$$-8 + \left[-3\frac{1}{2}\right] - \left[-4\frac{2}{3}\right] =$$

$$-\frac{8}{7} \div \frac{16}{91} - \left[\frac{5}{8} + \frac{7}{24}\right] =$$

$$-(0.6) \times \left[\frac{-1.24}{-0.8}\right] + [0.49] =$$

$$0.4^2 + \left[\frac{-0.45}{1.5} \times 4\right] - 0.93 =$$

If large square beds of equal size are to be made for planting vegetables on a plot of land 18 metres long and 15 metres wide, what is the maximum possible length of each bed?

210 oranges, 252 apples and 294 pears are equally packed in cartons so that no fruit is left. What is the biggest possible number of cartons needed?

In a morning walk, three persons step off together. Their steps measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?

Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.

Solve the below in your mind and write down the answer, remembering the quarters and half concepts would help you here, use strategy that can get you answer quicker:

$50 \times 0.5 =$

$450 \times 0.5 =$

$120 \times 0.25 =$

$180 \times 0.25 =$

$456 \div 0.25 =$

$684 \div 0.25 =$

$456 \div 0.75 =$

$684 \div 0.75 =$

Four friends have a total of Rs 1800. If Anna gets $\frac{1}{3}$ of the total and the rest of the money is equally distributed amongst the other three friends then how much will each friend get? What is the fraction of the total amount that each friend gets?

Multiply each answer with a 2, make sure to do this in your mind:

3									

$$-3 (-4) =$$

$$-6 (-3 + 5) =$$

$$-7 (-7 \times 3) =$$

$$-6 \times 8 =$$

$$-12 \times -5 \times -2 =$$

$$-13 \times -3 =$$

Find the square root of 81 =

Find the square root of -144 =

If the population of a town is 3 56 700 rounded off to the nearest hundred, then what is the minimum and maximum population of the town?

What is $\frac{1}{3} + \frac{4}{33} =$

Solve the below:

$$\frac{1}{2} \div \frac{1}{16} =$$

$$\frac{4}{16} \times \frac{20}{40} =$$

Find the smallest value of n so that the LCM of n and 15 is 45.

A handbag costs 26 700 Korean won (KRW). Conversion rate is $\$1 = \text{KRW } 876.333$. without using a calculator estimate the price of the bag in dollars.

What is the difference between -13 and 9?

What is the difference between -21 and -54?

1. A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets?

A. 45%

B. $45\frac{5}{11}\%$

C. $54\frac{6}{11}\%$

D. 55%

2. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

A. 39, 30

B. 41, 32

C. 42, 33

D. 43, 34

3- A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:

A. 588 apples

B. 600 apples

C. 672 apples

D. 700 apples

4. What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?

A. 1

B. 14

C. 20

D. 21

5- If $A = x\%$ of y and $B = y\%$ of x , then which of the following is true?

A. A is smaller than B.

B. A is greater than B

C. Relationship between A and B cannot be determined.

D. If x is smaller than y , then A is greater than B.

E. None of these

In an election, candidate A got 75% of the total valid votes. If 15% of the total votes were declared invalid and the total numbers of votes is 560000, find the number of valid vote polled in favor of candidate.

A shopkeeper bought 600 oranges and 400 bananas. He found 15% of oranges and 8% of bananas were rotten. Find the percentage of fruits in good condition.

Aaron had \$ 2100 left after spending 30 % of the money he took for shopping. How much money did he take along with him?

What is 30 % of 80?

In a class of 50 students, 40 % are girls. Find the number of girls and number of boys in the class?

Write factors using prime factorization method: 5650

The ratio of monthly income to the savings in a family is 5 : 4 If the savings be \$9000, find the income and the expenses.

What should be added to the ratio 5 : 11, so that the ratio becomes 3 : 4?

Two numbers are in the ratio 7 : 5. If 2 is subtracted from each of them, the ratio becomes 3 : 2. Find the numbers.

Two numbers are in the ratio 3 : 7. If their sum is 710, find the numbers.

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