

Answers

(1) 4320

Step 1

Let us first find the number of minutes in one day.

Step 2

We know that there are 60 minutes in one hour and 24 hours in one day.

Step 3

The number of minutes in one day = The number of minutes in one hour \times The number of hours in one day

$$= 60 \times 24 \text{ minutes}$$

$$= 1440 \text{ minutes}$$

Step 4

Now, we know the number of minutes in one day (1440 minutes). Let us find the number of minutes in 3 days.

Step 5

Hence, the number of minutes in 3 days = The number of minutes in one day \times The number of days

$$= 1440 \times 3$$

$$= \mathbf{4320 \text{ minutes}}$$

(2) 882588

Step 1

Number of rooms in the hotel = 196

Step 2

Rent of each room for one night = €4503

Step 3

According to the question, we have been asked to find the daily income of the hotel, assuming all rooms are occupied.

Daily income of the hotel = Number of rooms in the hotel \times Rent of one room

$$= 196 \times 4503$$

$$= \mathbf{€882588}$$

Step 4

Therefore, the daily income of the hotel is **€882588**.

(3) 41400

Step 1

Number of fruits in a crate = 30 guavas

Step 2

Number of crates filled by a farm worker in one day = 6

Step 3

Number of workers in the farm = 23

Step 4

Total number of guavas packed into crates in a day by one worker = Number of fruits in a crate ×
Number of crates fill by the worker in one day
= 30×6

Step 5

Total guavas packed into crates in a day by 23 workers = Total guavas packed into crates in a day
by one worker × Number of workers
= $30 \times 6 \times 23$

Step 6

Total guavas packed into crates in 10 days = Total guavas packed into crates in a day by 23
workers × Number of days
= $30 \times 6 \times 23 \times 10$
= 41400

Step 7

Therefore, **41400** guavas can be packed into crates in 10 days.

(4) € 2992

Step 1

According to the question, we need to find the money Katya paid for books only. Hence, the data
provided for toys is redundant.

Number of books bought by Katya = 44

Number of toys bought by Katya = 36

Step 2

Price of one book = €68

Step 3

Price of 44 books = 44×68
= €2992

Step 4

Therefore, the money paid by the Katya for books is **€2992**.

(5) 1218742 bricks

Step 1

According to the question, we have been asked to find number of bricks laid by the workers in a week.

Step 2

Number of bricks laid by a worker in one day = 263

Total number of workers = 662

Number of bricks laid in the week = Number of days \times Number of bricks laid by a worker in one day \times Number of workers

$$= 7 \times 263 \times 662$$

$$= 1218742$$

Step 3

Therefore, **1218742 bricks** will be laid in a week.

(6) A) one hundred thirty-four million eight hundred six thousand three hundred fifty-five

Step 1

We may write the given number names in numeral forms as:

Seven hundred twenty-eight thousand six hundred eighty-three = 728683

One hundred eighty-five = 185

Step 2

Let us multiply 728683 by each digit of 185, and add the products as shown in the tabular format below,

$$\begin{array}{r} 728683 \\ \times 185 \\ \hline 3643415 \\ 58294640 \\ 72868300 \\ \hline 134806355 \end{array}$$

Step 3

Thus, the product of seven hundred twenty-eight thousand six hundred eighty-three and one hundred eighty-five is **one hundred thirty-four million eight hundred six thousand three hundred fifty-five**.

B) ninety-seven million five hundred ninety-three thousand three hundred ninety-seven

Step 1

We may write the given number names in numeral forms as:

Eight hundred six thousand five hundred fifty-seven = 806557

One hundred twenty-one = 121

Step 2

Let us multiply 806557 by each digit of 121, and add the products as shown in the tabular format below,

$$\begin{array}{r} 806557 \\ \times 121 \\ \hline 806557 \\ 16131140 \\ 80655700 \\ \hline 97593397 \end{array}$$

Step 3

Thus, the product of eight hundred six thousand five hundred fifty-seven and one hundred twenty-one is **ninety-seven million five hundred ninety-three thousand three hundred ninety-seven**.

(7) € 27000

Step 1

Money contributed by the students in one day = €20

Step 2

Number of students in the school = 45

Step 3

Number of days in September = 30

Step 4

Total money collected by the students = $20 \times 45 \times 30$
= 27000

Step 5

Therefore, **€27000** are collected by the students.

(8) A) 8646078

Step 1

In the given question, we have been asked to find the product of two numbers:

Multiplicand: 8886

Multiplier: $(900+70+3)$

Here, we know the multiplier and multiplicand but the product is unknown.

Step 2

Remember, if we know the multiplier and the multiplicand, the product can be found by multiplying the multiplier and multiplicand.

So, the product = $8886 \times (900+70+3)$,

Or 8886×973 ,

Or 8646078.

Step 3

Hence, the product of $8886 \times (900+70+3)$ is **8646078**.

B) 2526656

Step 1

In the given question, we have been asked to find the product of two numbers:

Multiplicand: 3256

Multiplier: $(700+70+6)$

Here, we know the multiplier and multiplicand but the product is unknown.

Step 2

Remember, if we know the multiplier and the multiplicand, the product can be found by multiplying the multiplier and multiplicand.

So, the product = $3256 \times (700+70+6)$,

Or 3256×776 ,

Or 2526656.

Step 3

Hence, the product of $3256 \times (700+70+6)$ is **2526656**.

(9) 572640

Step 1

According to the question, we have been asked to find the total number of erasers that were distributed in the school.

Step 2

Total number of boxes of erasers = 12

Number of erasers in each box = 40

Total number of students in school = 1193

Total erasers = Number of boxes \times erasers in each box \times Number of students
 $= 12 \times 40 \times 1193$
 $= 572640$

Step 3

Hence, a total of **572640** erasers were distributed to all the students in the school.

(10) 15120 km.

Step 1

According to the question, a train travels 210 km in one hour.

Step 2

Number of hours in one day = 24 hours

Step 3

Total number of days = 3

Step 4

Total distance traveled by the train in 3 days = Distance traveled by the train in one hour \times
Number of hours in one day \times Number of days
 $= 210 \times 24 \times 3$
 $= 15120$

Step 5

Therefore, the total distance traveled by the train in 3 days is **15120 km**.

(11) 6589830

Step 1

Number of pairs of shoes made by a factory in one day = 18005

Step 2

Number of days in a leap year = 366 days

Step 3

Total number of pairs of shoes made in one leap year = Number of pairs of shoes made by the factory in one day \times Total number of days

$$= 18005 \times 366$$

$$= 6589830$$

Step 4

Therefore, **6589830** pairs of shoes can be made in one leap year.

(12) 66960 km.

Step 1

According to the question, a train travels 93 km in one hour.

Step 2

Number of days in the month of November = 30

Step 3

Number of hours in one day = 24 hours

Step 4

Distance traveled by the train in the month of November = Distance traveled by train in one hour \times Number of days \times Number of hours in one day

$$= 93 \times 30 \times 24$$

$$= 66960$$

Step 5

Therefore, the total distance covered by the train in the month of November is **66960 km**.

(13) a. 5×10

Step 1

If we multiply the number of bananas in each row with the total number of rows, we can get the total number of bananas.

Step 2

Number of bananas = Number of rows \times bananas in each row
 $= 5 \times 10$
 $= 50$

Step 3

Here, the expression used to find the total number of bananas is multiplication, that is, 5×10 .

(14) A) 9

Step 1

In the given question, we can see that 8118 is the product of two numbers:

Multiplicand: 82

Multiplier: $(90 + \underline{\quad})$

Here, we know the product and multiplicand, but the multiplier is not fully known.

Step 2

Remember, if we know the product and the multiplicand, the multiplier can be found by dividing the product by the multiplicand.

So, the multiplier $= 8118 \div 82 = 99$

Step 3

Now we know:

$90 + \underline{\quad} = 99$

Here, we know the sum and one of the addends, but the second addend is not known.

The other addend can be found by subtracting the known addend from the sum:

Unknown addend = Sum - Known addend

$= 99 - 90$

$= 9$

Step 4

Hence, the missing number is **9**.

B) 30

Step 1

In the given question, we can see that 2923 is the product of two numbers:

Multiplicand: 79

Multiplier: (+ 7)

Here, we know the product and multiplicand, but the multiplier is not fully known.

Step 2

Remember, if we know the product and the multiplicand, the multiplier can be found by dividing the product by the multiplicand.

So, the multiplier = $2923 \div 79 = 37$

Step 3

Now we know:

 + 7 = 37

Here, we know the sum and one of the addends, but the second addend is not known.

The other addend can be found by subtracting the known addend from the sum:

Unknown addend = Sum - Known addend

= $37 - 7$

= 30

Step 4

Hence, the missing number is **30**.

(15) 321

Step 1

The largest factor of any number is the number itself.

Step 2

Thus, the largest factor of 321 is 321.