Q3

Answer :

(i) 65007 ÷ 1 = 65007

(ii) 0 ÷ 879 = 0

(iii) 981 + 5720 ÷ 10
= 981 + (5720 ÷ 10)   (Following DMAS property)
= 981 + 572
= 1553

(iv) 1507 − (625 ÷ 25)   (Following BODMAS property)
= 1507 − 25
= 1482

(v) 32277 ÷ (648 − 39)   (Following BODMAS property)
= 32277 ÷ (609)
= 53

(vi) (1573 ÷ 1573) − (1573 ÷ 1573)   (Following BODMAS property)
= 1 − 1
= 0

Q4

Answer :

Given: $n \div n = n$

$\Rightarrow \dfrac{n}{n} = n$

$\Rightarrow n = n^2$

i.e., the whole number n is equal to n^2.

∴ The given whole number must be 1.

Q5

Answer :

Let x and y be the two numbers.

Product of the two numbers = $x \times y$ = 504347

If x = 317, we have:

$317 \times y = 504347$
$\Rightarrow y = 504347 \div 317$

$$
\begin{array}{r}
1591 \\
317\overline{)504347} \\
-317 \\
\hline
1873 \\
-1585 \\
\hline
2884 \\
-2853 \\
\hline
317 \\
-317 \\
\hline
0 \\
\hline
\end{array}
$$

y= 1591

∴ The other number is 1591.

Q6

Answer :

Dividend = 59761, quotient = 189, remainder = 37 and divisor = ?

Dividend = divisor × quotient + remainder
$\Rightarrow$ 59761 = divisor × 189 + 37
$\Rightarrow$ 59761 − 37 = divisor × 189
$\Rightarrow$ 59724 = divisor × 189
$\Rightarrow$ Divisor = 59724 ÷ 189

$$
\begin{array}{r}
316 \\
189 \overline{)\, 59724} \\
-567 \\
\hline
302 \\
-189 \\
\hline
1134 \\
-1134 \\
\hline
0
\end{array}
$$

Hence, divisor = 316

Q7

Answer :

Here, Dividend = 55390, Divisor = 299 and Remainder = 75
We have to find the quotient.
Now, Dividend = Divisor × Quotient + Remainder
$\Rightarrow$ 55390 = 299 × Quotient + 75
$\Rightarrow$ 55390 − 75 = 299 × Quotient
$\Rightarrow$ 55315 = 299 × Quotient
$\Rightarrow$ Quotient = 55315 ÷ 299

$$
\begin{array}{r}
185 \\
299 \overline{)\, 55315} \\
299 \\
\hline
2541 \\
2392 \\
\hline
1495 \\
1495 \\
\hline
0
\end{array}
$$

Hence, quotient = 185

*********** END *********