

SOLVED EXAMPLES

Ex. 1. Simplify : (i) $8888 + 888 + 88 + 8$ (B.S.R.B. 1998)
 (ii) $11992 - 7823 - 456$ (Bank Exam, 2003)

Sol. (i)
$$\begin{array}{r} 8888 \\ 888 \\ 88 \\ + 8 \\ \hline 9872 \end{array}$$
 (ii)
$$\begin{array}{r} 11992 \\ - 7823 \\ \hline 4169 \\ - 456 \\ \hline 3713 \end{array}$$

Ex. 2. What value will replace the question mark in each of the following equations ?

(i) $? - 1936248 = 1635773$ (ii) $8597 - ? = 7429 - 4358$ (Bank P.O. 2000)

Sol. (i) Let $x - 1936248 = 1635773$. Then, $x = 1635773 + 1936248 = 3572021$.
 (ii) Let $8597 - x = 7429 - 4358$.
 Then, $x = (8597 + 4358) - 7429 = 12955 - 7429 = 5526$.

Ex. 3. What could be the maximum value of Q in the following equation ?

$5P9 + 3R7 + 2Q8 = 1114$ (Bank P.O. 1999)

Sol. We may analyse the given equation as shown :

Clearly, $2 + P + R + Q = 11$.

So, the maximum value of Q can be

$(11 - 2)$ i.e., 9 (when $P = 0, R = 0$).

①	②
5	P 9
3	R 7
2	Q 8
11	1 4

Ex. 4. Simplify : (i) 5793405×9999 (ii) 839478×625

Sol. (i) $5793405 \times 9999 = 5793405 (10000 - 1) = 57934050000 - 5793405 = 57928256595$.

(ii) $839478 \times 625 = 839478 \times 5^4 = \frac{8394780000}{16} = 524673750$.

Ex. 5. Evaluate : (i) $986 \times 137 + 986 \times 863$ (ii) $983 \times 207 - 983 \times 107$

Sol. (i) $986 \times 137 + 986 \times 863 = 986 \times (137 + 863) = 986 \times 1000 = 986000$.

(ii) $983 \times 207 - 983 \times 107 = 983 \times (207 - 107) = 983 \times 100 = 98300$.

Ex. 6. Simplify : (i) 1605×1605 (ii) 1398×1398

Sol. (i) $1605 \times 1605 = (1605)^2 = (1600 + 5)^2 = (1600)^2 + (5)^2 + 2 \times 1600 \times 5$
 $= 2560000 + 25 + 16000 = 2576025$.

(ii) $1398 \times 1398 = (1398)^2 = (1400 - 2)^2 = (1400)^2 + (2)^2 - 2 \times 1400 \times 2$
 $= 1960000 + 4 - 5600 = 1954404$.

Ex. 7. Evaluate : $(313 \times 313 + 287 \times 287)$.

Sol. $(a^2 + b^2) = \frac{1}{2} [(a + b)^2 + (a - b)^2]$

$$\begin{aligned} \therefore (313^2 + 287^2) &= \frac{1}{2} [(313 + 287)^2 + (313 - 287)^2] = \frac{1}{2} [(600)^2 + (26)^2] \\ &= \frac{1}{2} (360000 + 676) = 180338. \end{aligned}$$

Ex. 8. Which of the following are prime numbers ?

(i) 241 (ii) 337 (iii) 391 (iv) 571

Sol. (i) Clearly, $16 > \sqrt{241}$. Prime numbers less than 16 are 2, 3, 5, 7, 11, 13.
 241 is not divisible by any one of them.

\therefore 241 is a prime number.

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