

Distributivity of multiplication over addition of numbers

$$4 \times 15 = 4 \times (10 + 5) = (4 \times 10) + (4 \times 5) = 40 + 20 = 60$$

$$a \times (b + c) = (a \times b) + (a \times c)$$

$$2 \times (5 + 3) = (2 \times 5) + (2 \times 3) = 10 + 6 = 16$$

a. $94 \times 2 = (90 + 4) \times 2 = (90 \times 2) + (4 \times 2) = 180 + 8 = 188$

b. $86 \times 2 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

c. $27 \times 6 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

d. $33 \times 6 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

e. $53 \times 7 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

f. $47 \times 3 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

g. $27 \times 4 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

h. $93 \times 9 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

i. $66 \times 6 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$

j. $39 \times 1 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} + \underline{\quad} = \underline{\quad}$