

Do in f/c abm

Exercise 2.2

25/02

Question 1:

Find the sum by suitable rearrangement:

(a) $837 + 208 + 363$

(b) $1962 + 453 + 1538 + 647$

Answer 1:

$$\begin{aligned} \text{(a)} \quad & 837 + 208 + 363 \\ & = (837 + 363) + 208 \\ & = 1200 + 208 \\ & = 1408 \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & 1962 + 453 + 1538 + 647 \\ & = (1962 + 1538) + (453 + 647) \\ & = 3500 + 1100 \\ & = 4600 \end{aligned}$$

Question 2:

Find the product by suitable arrangement:

(a) $2 \times 1768 \times 50$

(c) $8 \times 291 \times 125$

(e) $285 \times 5 \times 60$

(b) $4 \times 166 \times 25$

(d) $625 \times 279 \times 16$

(f) $125 \times 40 \times 8 \times 25$

Answer 2:

$$\begin{aligned} \text{(a)} \quad & 2 \times 1768 \times 50 \\ & = (2 \times 50) \times 1768 \\ & = 100 \times 1768 \\ & = 176800 \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad & 8 \times 291 \times 125 \\ & = (8 \times 125) \times 291 \\ & = 1000 \times 291 \\ & = 291000 \end{aligned}$$

$$\begin{aligned} \text{(e)} \quad & 285 \times 5 \times 60 \\ & = 284 \times (5 \times 60) \\ & = 284 \times 300 \\ & = 85500 \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & 4 \times 166 \times 25 \\ & = (4 \times 25) \times 166 \\ & = 100 \times 166 \\ & = 16600 \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad & 625 \times 279 \times 16 \\ & = (625 \times 16) \times 279 \\ & = 10000 \times 279 \\ & = 2790000 \end{aligned}$$

$$\begin{aligned} \text{(f)} \quad & 125 \times 40 \times 8 \times 25 \\ & = (125 \times 8) \times (40 \times 25) \\ & = 1000 \times 1000 \\ & = 1000000 \end{aligned}$$

