

VIDYA BHAWAN BALIKA VIDYA PITH

शक्तिउत्थानआश्रमलखीसरायबिहार

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Exercise 2.2 PAGE NO: 40

1. Find the sum by suitable rearrangement:

(a) $837 + 208 + 363$

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

Solutions:

(a) Given $837 + 208 + 363$

$$= (837 + 363) + 208$$

$$= 1200 + 208$$

$$= 1408$$

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

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

$$= 3500 + 1100$$

$$= 4600$$

2. Find the product by suitable rearrangement:

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

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

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

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

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

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

Solutions:

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

$$= 2 \times 50 \times 1768$$

$$= 100 \times 1768$$

$$= 176800$$

$$(b) \text{ Given } 4 \times 166 \times 25$$

$$= 4 \times 25 \times 166$$

$$= 100 \times 166$$

$$= 16600$$

$$(c) \text{ Given } 8 \times 291 \times 125$$

$$= 8 \times 125 \times 291$$

$$= 1000 \times 291$$

$$= 291000$$

$$(d) \text{ Given } 625 \times 279 \times 16$$

$$= 625 \times 16 \times 279$$

$$= 10000 \times 279$$

$$= 2790000$$

$$(e) \text{ Given } 285 \times 5 \times 60$$

$$= 285 \times 300$$

$$= 85500$$

$$(f) \text{ Given } 125 \times 40 \times 8 \times 25$$

$$= 125 \times 8 \times 40 \times 25$$

$$= 1000 \times 1000$$

$$= 1000000$$