Mathematics

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Exercise 2.2

Question 1:

Find the sum by suitable rearrangement:

(a)
$$837 + 208 + 363$$

(b) 1962 + 453 + 1538 + 647

Answer 1:

Question 2:

Find the product by suitable arrangement:

Answer 2:

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

= $(2 \times 50) \times 1768$
= 100×1768
= 176800
(c) $8 \times 291 \times 125$

$$= 176800$$
(c) 8 x 291 x 125
$$= (8 x 125) x 291$$

$$= 1000 x 291$$

$$= 291000$$
(e) 285 x 5 x 60

(b) 4 x 166 x 25 = (4 x 25) x 166 = 100 x 166 = 16600 (b) 625 x 279 x 16 = (625 x 16) x 27

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

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

$$= 10000 \times 279$$

$$= 2790000$$
(f) 125 x 40 x 8 x 25

$$= (125 \times 8) \times (40 \times 25)$$
$$= 1000 \times 1000$$
$$= 1000000$$

Question 3:

Find the value of the following:

Answer 3:

= 8126500

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Question 4:

Find the product using suitable properties:

- (a) 738 x 103
- (c) 258 x 1008

Answer 4:

- (a) 738 x 103
 - $=738 \times (100 + 3)$
 - $= 738 \times 100 + 738 \times 3$
 - =73800 + 2214
 - = 76014
- (c) 258 x 1008
 - $= 258 \times (1000 + 8)$
 - $= 258 \times 1000 + 258 \times 8$
 - = 258000 + 2064
 - = 260064

- (b) 854 x 102
- (d) 1005 x 168
- (b) 854 x 102
 - $= 854 \times (100 + 2)$
 - $= 854 \times 100 + 854 \times 2$
 - = 85400 + 1708
 - = 87108
- (d) 1005 x 168
 - $= (1000 + 5) \times 168$
 - $= 1000 \times 168 + 5 \times 168$
 - = 168000 + 840
 - = 168840

Question 5:

A taxi-driver, filled his car petrol tank with 40 litres of petrol on Monday. The next day, he filled the tank with 50 litres of petrol. If the petrol costs ₹ 44 per litre, how much did he spend in all on petrol?

Answer 5:

Petrol filled on Monday = 40 litres

Petrol filled on next day = 50 litres

Total petrol filled = 90 litres

Now,

Cost of 1 litre petrol = ₹ 44

Cost of 90 litres petrol = 44×90

 $= 44 \times (100 - 10)$

 $= 44 \times 100 - 44 \times 10$

= 4400 - 440

= ₹ 3960

Therefore, he spent ₹ 3960 on petrol.

Question 6:

A vendor supplies 32 litres of milk to a hotel in a morning and 68 litres of milk in the evening. If the milk costs ₹15 per litre, how much money is due to the vendor per day?

Answer 6:

Supply of milk in morning = 32 litres

Supply of milk in evening = 68 litres

Total supply = 32 + 68 = 100 litres

Now

Cost of 1 litre milk = ₹15

Cost of 100 litres milk = 15 x 100 = ₹1500

Therefore, ₹1500 is due to the vendor per day.

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Question 7:

Match the following:

- (i) $425 \times 136 = 425 \times (6 + 30 + 100)$
- (ii) $2 \times 48 \times 50 = 2 \times 50 \times 49$
- (iii) 80 + 2005 + 20 = 80 + 20 + 2005
- (a)Commutativity under multiplication
- (b) Commutativity under addition
- (c) Distributivity multiplication under addition

Answer 7:

- (i) $425 \times 136 = 425 \times (6 + 30 + 100)$
- (ii) $2 \times 49 \times 50 = 2 \times 50 \times 49$
- (iii) 80 + 2005 + 20 = 80 + 20 + 2005
- (c) Distributivity of multiplication over addition
- (a) Commutivity under multiplication
- (b) Commutivity under addition

