

PARAGON CONVENT SCHOOL

SECTOR – 24B , CHANDIGARH

ANSWER KEY

CLASS – 6

SUB – MATHS

EXERCISE – 4A

Q-3 Solve the following using the associative property:

Group the numbers such that the sum of the grouped numbers has 0 at ones place.

a. $87 + 64 + 36$

We can group $= (64 + 36) + 87 = 100 + 87 = 187$

b. $367 + 243 + 57$

$= (243 + 57) + 367 = 300 + 367 = 667$

c. $63 + 82 + 8$

$= (82 + 8) + 63 = 90 + 63 = 153$

d. $918 + 712 + 82$

$= (918 + 82) + 712 = 1000 + 712 = 1712$

EXERCISE – 4B

Q-3 On the annual sports day of G.H.School, 78 boys and 52 girls took part in various sporting activities . on the same day S.D School also held their annual sports day. There 52 boys and 78 girls took part in various sporting activities . Which school had more students participating in the sports day?

Sol : Number of students in G. H.School $= 78 + 52 = 130$

Number of students in S.D.School $= 52 + 78 = 130$

Same no of students participated from both the schools.

Q-4. Sampath and Joginder decided to jog around the school playground. Sampath takes 6 min and Joginder takes 8 min to jog one complete round of the playground . If Sampath jogged 8 rounds of the playground and joginder jogged 6 rounds , who jogged for lesser time?

Sol: one round Sampath completes in $= 6\text{min}$

$$8 \text{ rounds } ,, \quad ,, \quad ,, \quad = 6 \times 8 = 48 \text{ min.}$$

One round Joginder completes in = 8 min

$$6 \text{ rounds } ,, \quad ,, \quad = 8 \times 6 = 48 \text{ min.}$$

Both jogged for the same time.

Q-5 Ranjan's photo album has 10 pages with 12 photos on each page whereas Sanjay's album has 12 pages with 10 photos on each page . Whose album has more photos ?

$$\text{Sol : Photos in Ranjan's album} = 10 \times 12 = 120$$

$$\text{Photos in Sanjay's album} = 12 \times 10 = 120$$

In both's album has equal photos

Q-8.Solve the following as fast as you can using the properties of addition and multiplication-

$$\begin{aligned} \text{a. } 365 + 94 + 35 &= (365 + 35) + 94 \\ &= 400 + 94 = 494 \end{aligned}$$

$$\text{b. } 896 + 423 + 104 = (896 + 104) + 423 = 1000 + 423 = 1423$$

$$\text{c. } 379 \times 25 \times 4 = 379 \times (25 \times 4) = 379 \times 100 = 37900$$

$$\text{d. } 89 \times 125 \times 8 = 89 \times (125 \times 8) = 89 \times 1000 = 89000$$

Q-9. Show that :

$$\text{a. } (693 + 432) + 412 = 693 + (432 + 412)$$

$$\text{L.H.S.} = (693 + 432) + 412$$

$$= 1125 + 412 = 1537$$

$$\text{R.H.S} = 693 + (432 + 412)$$

$$= 693 + 844 = 1537$$

$$\text{L.H.S.} = \text{R.H.S.}$$

$$\text{c. } (85 \times 30) \times 4 = 85 \times (30 \times 4)$$

$$\text{L H S} = (85 \times 30) \times 4$$

$$= 2550 \times 4 = 10200$$

$$\text{R H S} = 85 \times (30 \times 4)$$

$$= 85 \times 120 = 10200$$

Q-11. The no of students in each class of a school is 25 . The fees paid by each student is Rs 812 per month . If there are 40 classes in the school , what is the total fee collection in a month ?

Sol : Total classes = 40

No of students in 1 class = 25

Fees paid by 1 student = Rs 812

Fees paid by 25 students = $812 \times 25 = \text{Rs } 20300$

Now , Fees paid by 1 class = RS 20300

Fees paid by 40 classes = $20300 \times 40 = \text{RS } 812000$

Q-12. Find the products of the following multiplication using associative property of multiplication-

a. $4 \times 2518 \times 25 = 2518 \times (25 \times 4)$
 $= 2518 \times 100 = 251800$

b. $5 \times 4231 \times 60 = 4231 \times (5 \times 60)$
 $= 4231 \times 300 = 1269300$

c. $50 \times 8 \times 4 \times 250 = 50 \times 8 \times (4 \times 250)$
 $= (50 \times 8) \times 1000$
 $= 400 \times 1000 = 400000$