Arithmetic Expressions

Standard difficulty · 20 questions · 40 marks · Time: 28 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. 12 + 7 × 10 equals:

(a) 29 **(b)** 190 **(c)** 94 **(d)** 82

2. 90 − (33 − 10) equals:

(a) 67 **(b)** 47 **(c)** 113 **(d)** 80

3. In 5 + 3 × 4, which is done first?

(a) 5 + 4 **(b)** either, it makes no difference
(c) 3 × 4 **(d)** 5 + 3

4. How many terms are there in 3 × 9 + 9 × 7?

(a) 2 **(b)** 4 **(c)** 3 **(d)** 1

5. Which of these equals 15 × (34 + 3)?

(a) 15 × 34 × 3 **(b)** 15 × 34 + 3
(c) 15 × 34 + 15 × 3 **(d)** 15 + 34 × 3

6. Without working them out, compare: 1002 − 588 □ 1002 − 591. Which sign goes in the box?

(a) you must work them out to tell **(b)** <
(c) > **(d)** =

7. 3 pens at Rs 12 each and 2 erasers at Rs 5 each cost:

(a) 3 × 12 + 2 × 5 **(b)** 3 × 12 × 2 × 5
(c) 3 + 12 × 2 + 5 **(d)** (3 + 2) × (12 + 5)

8. Rohan buys 8 notebooks at Rs 45 each and 9 pens at Rs 12 each. Which expression gives the total cost?

(a) 8 × 45 + 9 × 12 **(b)** (8 + 9) × (45 + 12)
(c) 8 + 45 × 9 + 12 **(d)** 8 × 45 × 9 × 12

Section B — Short answer — 8 × 2 = 16 marks

9. Find the value of (30 + 38) × 6 − 216.

10. Find 194 − 35 + 37 − 38.

11. Find 99 × 39 quickly by writing 99 as 100 − 1.

12. Remove the brackets and find the value: 137 − (34 + 9).

13. Write the value of each term, then of the whole expression: 13 − 3 × 8 + 36 ÷ 9.

14. Without subtracting, say which is greater: 793 − 158 or 793 − 160. Give a reason.

15. Put brackets in 12 + 13 × 9 to make it equal 225.

16. Find 216 ÷ 12 + 13 × 10.

Section C — Word problems — 4 × 4 = 16 marks

17. Priya buys 6 packets of rice at Rs 71 each and 3 bottles of oil at Rs 100 each, paying with Rs 1,000. Write one expression for the change and find it.

18. 8 friends share a bill of Rs 1,344 and a tip of Rs 160 equally. Write an expression for each friend's share and find it.

19. In a quiz, a right answer gets 2 marks and a wrong one loses 1 mark. Kabir gets 22 right and 7 wrong. Write an expression for his score and find it.

20. A bus leaves with 38 passengers. At the first stop 7 get off and 2 get on; at the second, 3 get off and 6 get on. Write an expression and find how many are on the bus now.

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Answer key

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Q	Answer	Working
1	**(d) 82**	multiplication first: 7 × 10 = 70; 12 + 70 = 82
2	**(a) 67**	90 − 23 = 67
3	**(c) 3 × 4**	multiplication before addition
4	**(a) 2**	terms are joined by + or −; a product counts as one term
5	**(c) 15 × 34 + 15 × 3**	both are 555
6	**(c) >**	the second takes away 3 more
7	**(a) 3 × 12 + 2 × 5**	Rs 46
8	**(a) 8 × 45 + 9 × 12**	= Rs 468
9	**192**	68 × 6 = 408; − 216
10	**158**	add the positive terms 231, subtract 73
11	**3861**	100 × 39 − 1 × 39 = 3900 − 39
12	**137 − 34 − 9 = 94**	a − (b + c) = a − b − c
13	**13, 24, 4; value −7**	13 − 24 + 4
14	**793 − 158**	it takes away 2 less, so 2 more is left
15	**(12 + 13) × 9**	25 × 9 = 225
16	**148**	18 + 130
17	**1000 − (6 × 71 + 3 × 100) = Rs 274**	426 + 300 = 726
18	**(1344 + 160) ÷ 8 = Rs 188**	1504 ÷ 8
19	**2 × 22 − 7 = 37**	44 − 7
20	**38 − 7 + 2 − 3 + 6 = 36**	46 − 10

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