Operations with Integers

Standard difficulty · 20 questions · 40 marks · Time: 35 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. The value of (−7) × (−5) is:
(a) −12 **(b)** −35 **(c)** 12 **(d)** 35

2. The product of 20 negative integers is always:
(a) positive **(b)** negative **(c)** zero **(d)** cannot say

3. The additive inverse of −18 is:
(a) −18 **(b)** 1/18 **(c)** 0 **(d)** 18

4. Which of these is the greatest? −18, −7, −19, 3
(a) −19 **(b)** −18 **(c)** −7 **(d)** 3

5. −72 ÷ 6 = ?
(a) −12 **(b)** −432 **(c)** −66 **(d)** 12

6. −16 − (−16) = ?
(a) −16 **(b)** 0 **(c)** −32 **(d)** 32

7. Which statement is TRUE for integers?
(a) (−a) × (−b) is always negative **(b)** a ÷ 0 = 0 for every integer a
(c) a × 0 = 0 for every integer a **(d)** a − b = b − a for all a, b

8. The value of (−1) × (−1) × (−1) × (−1) × (−1) × (−1) × (−6) is:
(a) −6 **(b)** −1 **(c)** 1 **(d)** 6

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

9. Simplify: (−11) + (−28) − (−28)

10. Simplify: (−15) + (−30) − 40

11. Simplify: (−37) + (−37) − (−36)

12. Find: (−9) × 5 × (−6)

13. Find: (−72) ÷ (−6)

14. Arrange in ascending order: 3, 21, −29, 6, −16, 19

15. Use the distributive property to find: 4 × 10 − 4 × 9

16. Fill in the blank: ____ ÷ (−4) = −40

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

17. At 6 pm the temperature in Leh was 5°C. It fell by 4°C every hour. What was the temperature 8 hours later?

18. In a quiz, each correct answer earns +4 marks and each wrong answer gets −1. Riya answered 11 correctly and 5 wrongly. What is her total score?

19. A submarine is 27 m below sea level. It descends 6 m every minute. Where will it be after 11 minutes? Write the answer as an integer.

20. A lift starts at floor 4. It goes up 11 floors, then down 18 floors. Taking ground floor as 0 and basements as negative, where is the lift now?

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Answer key

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Q	Answer	Working
1	**(d) 35**	negative × negative = positive
2	**(a) positive**	an even number of negative factors gives a positive product
3	**(d) 18**	−18 + 18 = 0
4	**(d) 3**	on the number line the greatest is furthest right
5	**(a) −12**	negative ÷ positive = negative
6	**(b) 0**	−16 + 16 = 0
7	**(c) a × 0 = 0 for every integer a**	division by zero is not defined; subtraction is not commutative
8	**(a) −6**	6 factors of (−1) multiply to 1, so the answer is −6
9	**−11**	(−11) + (−28) + 28 = −11
10	**−85**	(−15) + (−30) + (−40) = −85
11	**−38**	(−37) + (−37) + 36 = −38
12	**270**	(−9 × 5) = −45; −45 × (−6) = 270
13	**12**	negative ÷ negative = positive
14	**−29, −16, 3, 6, 19, 21**	smallest (most negative) first
15	**4**	4 × (10 − 9) = 4 × 1 = 4
16	**160**	−40 × (−4) = 160
17	**−27°C**	5 − 4 × 8 = 5 − 32 = −27°C
18	**39 marks**	11 × 4 + 5 × (−1) = 44 − 5 = 39
19	**−93 m (i.e. 93 m below sea level)**	−27 + (−6 × 11) = −27 − 66 = −93
20	**−3 (basement level 3)**	4 + 11 − 18 = −3