

Integers

MCQ Test, Set 03

Time: 30 minutes

Maximum marks: 25

Name: _____ Class: _____ Date: _____

1. There are 25 questions. Each has exactly one correct answer: choose A, B, C or D.
2. Each correct answer carries 1 mark. There is no negative marking.
3. The key sheet and worked solutions are at the end of this test.

1. The integer just before -44 on the number line is
A. -43 **B.** -46 **C.** -45 **D.** -44
2. The number of integers between -11 and 27 is
A. 37 **B.** 39 **C.** 16 **D.** 38
3. The sum of -58 and -68 is
A. -16 **B.** -126 **C.** -10 **D.** -136
4. In $-24 - 16 = -(\square)$, the number in the box is
A. 30 **B.** 50 **C.** 8 **D.** 40
5. The sum of -81 and 59 is
A. -140 **B.** -38 **C.** -22 **D.** -32
6. In $-52 + 19 = -(\square)$, the number in the box is
A. 71 **B.** 47 **C.** 43 **D.** 33
7. A trader gained ₹5583 on one deal and lost ₹837 on another. Altogether this is
A. a profit of ₹6420 **B.** a profit of ₹5354
C. a loss of ₹4746 **D.** a profit of ₹4746
8. $-49 - 8904 =$
A. -8963 **B.** -8953 **C.** -8943 **D.** -8855
9. The value of $-5848 + 264$ is
A. -5584 **B.** -6112 **C.** -5624 **D.** -5684
10. $12907 - 7494 =$
A. 15513 **B.** 15593 **C.** 5414 **D.** 5413
11. Kiran worked out $71422 - 2175$ and got 71353 , which is wrong. The correct answer is
A. 69246 **B.** 79357 **C.** 69248 **D.** 69247

12. To find $616 - 593$, Sita counts down $616 \rightarrow 600 \rightarrow 593$. The two jumps are
A. 16 and 7 **B.** 116 and 7 **C.** 16 and 17 **D.** 16 and 93
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13. The value of $-991 + 609$ is
A. -1600 **B.** -398 **C.** -382 **D.** -392
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14. In $789 - 622 - 34 + 803$, the total of the positive terms and the total of the negative terms (without the sign) are
A. 1592 and 656 **B.** 1592 and 666 **C.** 2214 and 34 **D.** 789 and 1459
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15. The value of $-93 + 285 + 542 - 769$ is
A. -1119 **B.** -35 **C.** 1689 **D.** 151
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16. The value of $286 - 5288 - 8236$ is
A. 3234 **B.** -2662 **C.** -13238 **D.** -13810
-
17. $28 \times -5 =$
A. 23 **B.** -140 **C.** -145 **D.** -33
-
18. Which of these equals -70 ?
A. 2×-35 **B.** -5×-14 **C.** $-24 + 94$ **D.** $73 - 3$
-
19. $-73 \times -736 =$
A. 53828 **B.** 53728 **C.** 53628 **D.** 7360
-
20. -64×15 equals
A. -960 **B.** -860 **C.** -384 **D.** -1060
-
21. The value of 52×-98 is
A. -5096 **B.** -686 **C.** -5196 **D.** -4996
-
22. Which of these four is positive?
A. $\frac{-36}{9}$ **B.** $\frac{536}{-8}$ **C.** $\frac{-808}{4}$ **D.** $\frac{-268}{-4}$
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23. The value of $\frac{-64}{4}$ is
A. -15 **B.** -17 **C.** -18 **D.** -16
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24. Sita wrote $-5 - 38 = 43$, saying 'minus and minus make plus'. The correct value of $-5 - 38$ is
A. -53 **B.** -33 **C.** -43 **D.** 190
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25. The value of $-52 + 7$ is
A. -45 **B.** -59 **C.** -364 **D.** -55
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Key sheet

1. C	2. A	3. B	4. D	5. C
6. D	7. D	8. B	9. A	10. D
11. D	12. A	13. C	14. A	15. B
16. C	17. B	18. A	19. B	20. A
21. A	22. D	23. D	24. C	25. A

Solutions

1. The integer just before -44 on the number line is

Just before means one jump of 1 to the left.

$$-44 - 1 = -(44 + 1) = -45$$

Ans: (C) -45

2. The number of integers between -11 and 27 is

Between -11 and 0 : 10 ; then 0 itself; between 0 and 27 : 26 .

$$\text{Total} = 10 + 1 + 26 = 37$$

Ans: (A) 37

3. The sum of -58 and -68 is

Adding -68 to -58 gives $-58 - 68$.

$$\text{Both are negative: } -58 - 68 = -(58 + 68) = -126$$

Ans: (B) -126

4. In $-24 - 16 = -(\square)$, the number in the box is

Same signs: add the numbers and keep the $-$ sign.

$$-24 - 16 = -(24 + 16) = -(40)$$

Ans: (D) 40

5. The sum of -81 and 59 is

This is $-81 + 59$.

$$-81 + 59 = -(81 - 59) = -22$$

Ans: (C) -22

6. In $-52 + 19 = -(\square)$, the number in the box is

Different signs: subtract the smaller from the bigger; the bigger is negative, so the answer is negative.

$$-52 + 19 = -(52 - 19) = -(33)$$

Ans: (D) 33

7. A trader gained ₹5583 on one deal and lost ₹837 on another. Altogether this is

$$\text{Gain} = +5583, \text{ loss} = -837$$

$$5583 - 837 = 4746$$

A profit of ₹4746.

Ans: (D) a profit of ₹4746

8. $-49 - 8904 =$

$$-49 - 8904 = -(49 + 8904) = -8953$$

Ans: (B) -8953

9. The value of $-5848 + 264$ is

Different signs: subtract and keep the sign of the bigger number.

$$-5848 + 264 = -(5848 - 264) = -5584$$

Ans: (A) -5584

10. $12907 - 7494 =$

Subtract column by column from the units, borrowing where the top digit is smaller.

$$12907 - 7494 = 5413$$

Ans: (D) 5413

11. Kiran worked out $71422 - 2175$ and got 71353, which is wrong. The correct answer is

Subtract column by column from the units. When you borrow, take the 1 away from the next column.

$$71422 - 2175 = 69247$$

Ans: (D) 69247

12. To find $616 - 593$, Sita counts down $616 \rightarrow 600 \rightarrow 593$. The two jumps are

$$616 \rightarrow 600: 616 - 600 = 16$$

$$600 \rightarrow 593: 600 - 593 = 7$$

$$(\text{So } 616 - 593 = 16 + 7 = 23.)$$

Ans: (A) 16 and 7

13. The value of $-991 + 609$ is

$$-991 + 609 = -(991 - 609)$$

$$991 \rightarrow 700 \rightarrow 609: 291 + 91 = 382$$

So the answer is -382

Ans: (C) -382

14. In $789 - 622 - 34 + 803$, the total of the positive terms and the total of the negative terms (without the sign) are

$$\text{Positive terms: } 789 + 803 = 1592$$

$$\text{Negative terms: } 622 + 34 = 656$$

Ans: (A) 1592 and 656

15. The value of $-93 + 285 + 542 - 769$ is

Add the positive terms, add the negative terms, then subtract.

$$-93 + 285 + 542 - 769 = 827 - 862 = -(862 - 827) = -35$$

Ans: (B) -35

16. The value of $286 - 5288 - 8236$ is

Positive term: 286

$$\text{Negative terms: } 5288 + 8236 = 13524$$

$$286 - 5288 - 8236 = 286 - 13524 = -(13524 - 286) = -13238$$

Ans: (C) -13238

17. $28 \times -5 =$

Sign: $+$ $\times$ $- = -$

$28 \times 5 = 140$, so $28 \times -5 = -140$

Ans: (B) -140

18. Which of these equals -70 ?

2×-35 : $+$ $\times$ $- = -$, so it is -70

The others are all 70 : -5×-14 is $- \times -$, and the two additions give $+(94 - 24)$ and $73 - 3$.

Ans: (A) 2×-35

19. $-73 \times -736 =$

Sign: $- \times - = +$

$736 \times 3 = 2208$, $736 \times 70 = 51520$, $2208 + 51520 = 53728$

So $-73 \times -736 = 53728$

Ans: (B) 53728

20. -64×15 equals

Sign: $- \times + = -$

$64 \times 5 = 320$, $64 \times 10 = 640$, $320 + 640 = 960$

So $-64 \times 15 = -960$

Ans: (A) -960

21. The value of 52×-98 is

Sign: $+$ $\times$ $- = -$

$98 \times 2 = 196$, $98 \times 50 = 4900$, $196 + 4900 = 5096$

So $52 \times -98 = -5096$

Ans: (A) -5096

22. Which of these four is positive?

$\frac{-}{-} = +$ while $\frac{+}{-}$ and $\frac{-}{+}$ are $-$.

$\frac{-268}{-4} = 67$

Ans: (D) $\frac{-268}{-4}$

23. The value of $\frac{-64}{4}$ is

$\frac{-}{+} = -$

$64 \div 4 = 16$, so $\frac{-64}{4} = -16$

Ans: (D) -16

24. Sita wrote $-5 - 38 = 43$, saying 'minus and minus make plus'. The correct value of $-5 - 38$ is
'Minus and minus make plus' is the multiplication rule, not the addition rule.

Addition with the same signs: $-5 - 38 = -(5 + 38) = -43$

Ans: (C) -43

25. The value of $-52 + 7$ is

This is addition with different signs, not multiplication.

$$-52 + 7 = -(52 - 7) = -45$$

Ans: (A) -45
