EXPRESSWALA ACADEMY

Integers

MCQ Test, Set 04

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 integers between -4 and 1 are

A. $-4, -3, -2, -1, 0, 1$ **B.** $-3, -2, -1$ **C.** $-2, -1, 0$ **D.** $-3, -2, -1, 0$

2. The sum of -88 and -46 is

A. -42 **B.** -24 **C.** -144 **D.** -134

3. $-97 - 74$ equals

A. -23 **B.** -171 **C.** -181 **D.** -61

4. The sum of -59 and 98 is

A. 157 **B.** 49 **C.** 41 **D.** 39

5. The value of $19 - 48$ is

A. -29 **B.** -31 **C.** -39 **D.** -67

6. In $45 - 52 = -(\square)$, the number in the box is

A. 13 **B.** 97 **C.** 7 **D.** 17

7. $937 - 3609$ equals

A. -3772 **B.** -3332 **C.** -4546 **D.** -2672

8. $-3176 + 9129$ equals

A. 5963 **B.** 5953 **C.** 6053 **D.** 12305

9. Subtract 278 from 4345. The answer is

A. 4067 **B.** 4068 **C.** 4133 **D.** 4177

10. Divya worked out $45006 - 1173$ and got 44933, which is wrong. The correct answer is

A. 43832 **B.** 43833 **C.** 44173 **D.** 43834

11. $-999 - 2713 =$

A. -1714 **B.** -3712 **C.** -3722 **D.** -2602

12. $783 - 832 =$

A. -159 **B.** -1615 **C.** -49 **D.** -151

13. In four days a stall had: profit ₹476, loss ₹303, loss ₹104, profit ₹624. Altogether this is

A. a profit of ₹693 **B.** a loss of ₹555

C. a loss of ₹693 **D.** a profit of ₹1299

14. In $51 - 83 + 37 - 13$, the total of the positive terms and the total of the negative terms (without the sign) are

A. 88 and 96 **B.** 171 and 13 **C.** 88 and 106 **D.** 51 and 133

15. $364 - 506 - 2109 =$

A. -1239 **B.** -2979 **C.** 1967 **D.** -2251

16. Exactly one of these is positive. Which is it?

A. -6×-3 **B.** $-26 - 31$ **C.** 35×-8 **D.** $-38 + 37$

17. The value of -37×4 is

A. -152 **B.** -41 **C.** -33 **D.** -148

18. Which expression below has a negative value?

A. -39×-11 **B.** $7 + 36$ **C.** -33×3 **D.** $-4 + 26$

19. -579×-53 equals

A. 30787 **B.** 30687 **C.** 30587 **D.** 4632

20. The value of -32×69 is

A. -2308 **B.** -2108 **C.** -2208 **D.** -345

21. The value of $\frac{-80172}{9}$ is

A. -898 **B.** -89080 **C.** -8908 **D.** -8918

22. Which of the following works out positive?

A. $\frac{328}{-4}$ **B.** $\frac{-60}{4}$ **C.** $\frac{-164}{4}$ **D.** $\frac{-831}{-3}$

23. The value of $\frac{42}{-7}$ is

A. -7 **B.** -8 **C.** -6 **D.** -5

24. Which of these equals 21?

A. $\frac{-189}{-9}$ **B.** $\frac{147}{-7}$ **C.** $-15 - 6$ **D.** -7×3

25. Sita wrote $-7 - 43 = 50$, saying 'minus and minus make plus'. The correct value of $-7 - 43$ is

A. -50 **B.** 301 **C.** -36 **D.** -60

Key sheet

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

Solutions

1. The integers between -4 and 1 are

Leave out -4 and 1 themselves, and do not miss 0.

$-3, -2, -1, 0$

Ans: (D) $-3, -2, -1, 0$

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2. The sum of -88 and -46 is

Adding -46 to -88 gives $-88 - 46$.

Both are negative: $-88 - 46 = -(88 + 46) = -134$

Ans: (D) -134

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3. $-97 - 74$ equals

Both are negative: add and keep the $-$ sign.

$-97 - 74 = -(97 + 74) = -171$

Ans: (B) -171

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4. The sum of -59 and 98 is

This is $-59 + 98$.

$-59 + 98 = +(98 - 59) = 39$

Ans: (D) 39

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5. The value of $19 - 48$ is

Different signs: subtract the smaller from the bigger and keep the sign of the bigger.

$19 - 48 = -(48 - 19) = -29$

Ans: (A) -29

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6. In $45 - 52 = -(\square)$, the number in the box is

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

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

Ans: (C) 7

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7. $937 - 3609$ equals

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

$937 - 3609 = -(3609 - 937) = -2672$

Ans: (D) -2672

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8. $-3176 + 9129$ equals

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

$-3176 + 9129 = +(9129 - 3176) = 5953$

Ans: (B) 5953

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9. Subtract 278 from 4345. The answer is

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

$4345 - 278 = 4067$

Ans: (A) 4067

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10. Divya worked out $45006 - 1173$ and got 44933, 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.

$45006 - 1173 = 43833$

Ans: (B) 43833

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11. $-999 - 2713 =$

Both are negative: add and keep the $-$ sign.

$-999 - 2713 = -(999 + 2713) = -3712$

Ans: (B) -3712

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12. $783 - 832 =$

$783 - 832 = -(832 - 783)$

$832 \to 800 \to 783$: $32 + 17 = 49$

So the answer is -49

Ans: (C) -49

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13. In four days a stall had: profit ₹476, loss ₹303, loss ₹104, profit ₹624. Altogether this is

Positive terms: $476 + 624 = 1100$

Negative terms: $303 + 104 = 407$

$476 - 303 - 104 + 624 = 1100 - 407 = 693$

A profit of ₹693.

Ans: (A) a profit of ₹693

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14. In $51 - 83 + 37 - 13$, the total of the positive terms and the total of the negative terms (without the sign) are

Positive terms: $51 + 37 = 88$

Negative terms: $83 + 13 = 96$

Ans: (A) 88 **and** 96

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15. $364 - 506 - 2109 =$

Positive term: 364

Negative terms: $506 + 2109 = 2615$

$364 - 506 - 2109 = 364 - 2615 = -(2615 - 364) = -2251$

Ans: (D) -2251

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16. Exactly one of these is positive. Which is it?

-6×-3: $- \times - = +$, so it is 18

$35 \times -8 = -280$, $-26 - 31 = -57$, $-38 + 37 = -1$: all negative

Ans: (A) -6×-3

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17. The value of -37×4 is

Sign: $- \times + = -$

$37 \times 4 = 148$, so $-37 \times 4 = -148$

Ans: (D) -148

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18. Which expression below has a negative value?

-33×3: $- \times + = -$, so it is -99

$-39 \times -11 = 429$, $7 + 36 = 43$, $-4 + 26 = 22$: all positive

Ans: (C) -33×3

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19. -579×-53 equals

Sign: $- \times - = +$

$579 \times 3 = 1737$, $579 \times 50 = 28950$, $1737 + 28950 = 30687$

So $-579 \times -53 = 30687$

Ans: (B) 30687

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20. The value of -32×69 is

Sign: $- \times + = -$

$69 \times 2 = 138$, $69 \times 30 = 2070$, $138 + 2070 = 2208$

So $-32 \times 69 = -2208$

Ans: (C) -2208

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21. The value of $\frac{-80172}{9}$ is

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

$80 \div 9 = 8$ r 8; $81 \div 9 = 9$; $7 \div 9 = 0$ r 7; $72 \div 9 = 8$

So $\frac{-80172}{9} = -8908$

Ans: (C) -8908

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22. Which of the following works out positive?

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

$\frac{-831}{-3} = 277$

Ans: (D) $\frac{-831}{-3}$

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23. The value of $\frac{42}{-7}$ is

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

$42 \div 7 = 6$, so $\frac{42}{-7} = -6$

Ans: (C) -6

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24. Which of these equals 21?

$\frac{-189}{-9}$: $\frac{-}{-} = +$ and $189 \div 9 = 21$

The others are all -21: $- \times +$, two negatives added, and $\frac{+}{-}$.

Ans: (A) $\frac{-189}{-9}$

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25. Sita wrote $-7 - 43 = 50$, saying 'minus and minus make plus'. The correct value of $-7 - 43$ is

'Minus and minus make plus' is the multiplication rule, not the addition rule.

Addition with the same signs: $-7 - 43 = -(7 + 43) = -50$

Ans: (A) -50