

Integers

MCQ Test, Set 09

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. Starting at 6, Anil makes 12 jumps of 1 to the left on the number line. Anil lands on
A. -7 **B.** -6 **C.** -5 **D.** 18
2. The number of integers between -10 and 15 is
A. 5 **B.** 26 **C.** 25 **D.** 24
3. The value of $-77 - 79$ is
A. -156 **B.** -2 **C.** -46 **D.** -166
4. The sum of -98 and -64 is
A. -34 **B.** -172 **C.** -52 **D.** -162
5. In $-32 + 25 = -(\square)$, the number in the box is
A. 17 **B.** 13 **C.** 7 **D.** 57
6. $-86 + 69 =$
A. -27 **B.** -155 **C.** -17 **D.** -23
7. The sum of 47 and -83 is
A. -44 **B.** -36 **C.** -46 **D.** -130
8. A trader gained ₹2663 on one deal and lost ₹3016 on another. Altogether this is
A. a profit of ₹353 **B.** a loss of ₹1653
C. a loss of ₹353 **D.** a loss of ₹5679
9. The value of $-8187 + 6189$ is
A. -1998 **B.** -14376 **C.** -2008 **D.** -2002
10. Subtract 8574 from 88101. The answer is
A. 80637 **B.** 80473 **C.** 79527 **D.** 79528
11. Divya worked out $74324 - 3258$ and got 71134, which is wrong. The correct answer is
A. 71066 **B.** 71065 **C.** 71176 **D.** 71067

12. To find $702 - 494$, Arjun counts down $702 \rightarrow 500 \rightarrow 494$. The two jumps are
A. 202 and 94 **B.** 202 and 16 **C.** 302 and 6 **D.** 202 and 6
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13. $559 - 727 =$
A. -232 **B.** -1286 **C.** -278 **D.** -168
-
14. $6012 - 356 - 7607 =$
A. -1951 **B.** -1239 **C.** -13975 **D.** 13263
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15. In $714 + 322 - 245 - 43$, the total of the positive terms and the total of the negative terms (without the sign) are
A. 1036 and 298 **B.** 714 and 610 **C.** 1281 and 43 **D.** 1036 and 288
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16. $906 - 15 + 381 - 751 =$
A. 2053 **B.** -241 **C.** 551 **D.** 521
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17. Without working it out, the product -84×42 is
A. zero
B. negative
C. positive, because the bigger number decides
D. positive
-
18. 43×-6 equals
A. -258 **B.** -49 **C.** -264 **D.** 37
-
19. Which of these equals 132?
A. $3 - 135$ **B.** -4×-33 **C.** -3×44 **D.** $-78 - 54$
-
20. $-436 \times 48 =$
A. -20928 **B.** -5232 **C.** -21028 **D.** -20828
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21. The value of -83×-99 is
A. 8117 **B.** 8217 **C.** 8317 **D.** 1089
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22. $\frac{-62586}{6} =$
A. -10441 **B.** -1431 **C.** -10431 **D.** -104310
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23. Only one of these is positive. Which one?
A. $\frac{750}{-6}$ **B.** $\frac{-99}{9}$ **C.** $\frac{-468}{-9}$ **D.** $\frac{-912}{4}$
-
24. Which of these equals 45?
A. $\frac{-135}{-3}$ **B.** $-14 - 31$ **C.** $\frac{90}{-2}$ **D.** -9×5
-
25. $-48 + 6 =$
A. -42 **B.** -52 **C.** -288 **D.** -54
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Key sheet

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

Solutions

1. Starting at 6, Anil makes 12 jumps of 1 to the left on the number line. Anil lands on

Jumps to the left subtract.

$$6 - 12 = -(12 - 6) = -6$$

Ans: (B) -6

2. The number of integers between -10 and 15 is

Between -10 and 0 : 9; then 0 itself; between 0 and 15 : 14.

$$\text{Total} = 9 + 1 + 14 = 24$$

Ans: (D) 24

3. The value of $-77 - 79$ is

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

$$-77 - 79 = -(77 + 79) = -156$$

Ans: (A) -156

4. The sum of -98 and -64 is

Adding -64 to -98 gives $-98 - 64$.

$$\text{Both are negative: } -98 - 64 = -(98 + 64) = -162$$

Ans: (D) -162

5. In $-32 + 25 = -(\square)$, the number in the box is

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

$$-32 + 25 = -(32 - 25) = -(7)$$

Ans: (C) 7

6. $-86 + 69 =$

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

$$-86 + 69 = -(86 - 69) = -17$$

Ans: (C) -17

7. The sum of 47 and -83 is

This is $47 - 83$.

$$47 - 83 = -(83 - 47) = -36$$

Ans: (B) -36

8. A trader gained ₹2663 on one deal and lost ₹3016 on another. Altogether this is

Gain = $+2663$, loss = -3016

$$2663 - 3016 = -(3016 - 2663) = -353$$

A loss of ₹353.

Ans: (C) a loss of ₹353

9. The value of $-8187 + 6189$ is

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

$$-8187 + 6189 = -(8187 - 6189) = -1998$$

Ans: (A) -1998

10. Subtract 8574 from 88101. The answer is

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

$$88101 - 8574 = 79527$$

Ans: (C) 79527

11. Divya worked out $74324 - 3258$ and got 71134, 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.

$$74324 - 3258 = 71066$$

Ans: (A) 71066

12. To find $702 - 494$, Arjun counts down $702 \rightarrow 500 \rightarrow 494$. The two jumps are

$$702 \rightarrow 500: 702 - 500 = 202$$

$$500 \rightarrow 494: 500 - 494 = 6$$

$$(\text{So } 702 - 494 = 202 + 6 = 208.)$$

Ans: (D) 202 and 6

13. $559 - 727 =$

$$559 - 727 = -(727 - 559)$$

$$727 \rightarrow 600 \rightarrow 559: 127 + 41 = 168$$

So the answer is -168

Ans: (D) -168

14. $6012 - 356 - 7607 =$

Positive term: 6012

Negative terms: $356 + 7607 = 7963$

$$6012 - 356 - 7607 = 6012 - 7963 = -(7963 - 6012) = -1951$$

Ans: (A) -1951

15. In $714 + 322 - 245 - 43$, the total of the positive terms and the total of the negative terms (without the sign) are

$$\text{Positive terms: } 714 + 322 = 1036$$

$$\text{Negative terms: } 245 + 43 = 288$$

Ans: (D) 1036 and 288

16. $906 - 15 + 381 - 751 =$

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

$$906 - 15 + 381 - 751 = 1287 - 766 = 521$$

Ans: (D) 521

17. Without working it out, the product -84×42 is

$$- \times + = -$$

So the product is negative.

Ans: (B) negative

18. 43×-6 equals

$$\text{Sign: } + \times - = -$$

$$43 \times 6 = 258, \text{ so } 43 \times -6 = -258$$

Ans: (A) -258

19. Which of these equals 132?

$$-4 \times -33: - \times - = +, \text{ so it is } 132$$

The others are all -132 : -3×44 is $- \times +$, and the two additions give $-(78 + 54)$ and $-(135 - 3)$.

Ans: (B) -4×-33

20. $-436 \times 48 =$

$$\text{Sign: } - \times + = -$$

$$436 \times 8 = 3488, 436 \times 40 = 17440, 3488 + 17440 = 20928$$

$$\text{So } -436 \times 48 = -20928$$

Ans: (A) -20928

21. The value of -83×-99 is

$$\text{Sign: } - \times - = +$$

$$99 \times 3 = 297, 99 \times 80 = 7920, 297 + 7920 = 8217$$

$$\text{So } -83 \times -99 = 8217$$

Ans: (B) 8217

22. $\frac{-62586}{6} =$

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

$$6 \div 6 = 1; 2 \div 6 = 0 \text{ r } 2; 25 \div 6 = 4 \text{ r } 1; 18 \div 6 = 3; 6 \div 6 = 1$$

$$\text{So } \frac{-62586}{6} = -10431$$

Ans: (C) -10431

23. Only one of these is positive. Which one?

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

$$\frac{-468}{-9} = 52$$

Ans: (C) $\frac{-468}{-9}$

24. Which of these equals 45?

$$\frac{-135}{-3}: \frac{-}{-} = + \text{ and } 135 \div 3 = 45$$

The others are all -45 : $- \times +$, two negatives added, and $\frac{+}{-}$.

Ans: (A) $\frac{-135}{-3}$

25. $-48 + 6 =$

This is addition with different signs, not multiplication.

$$-48 + 6 = -(48 - 6) = -42$$

Ans: (A) -42
