MATHS

BOOKS - MTG IIT JEE FOUNDATION

WHOLE NUMBERS

Illustrations

1. Write the predecessor of each of the following:

483692

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2. Write the predecessor of each of the following:

5983210

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3. Write the predecessor of each of the following:

600000

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4. Write the successor of each of the following:

986959

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5. Write the successor of each of the following:

3840517

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6. Write the successor of each of the following:

9989899

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7. Add 5 and 6 using number line.

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8. Subtract 5 from 13 on number line.

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9. Multiply 5×2 on number line.

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10. Find out whether $2455 + 2223 = 2223 + 2455$ or not.

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11. Find the sum using suitable rearrangement.

$1436 + 586 + 564$

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12. Find the sum using suitable rearrangement.

$364 + 517 + 636 + 983$

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13. Find 16×25 using distributivity.

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14. Find the product using suitable rearrangement:

$1963 \times 2 \times 50$

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15. Find the product using suitable rearrangement:

$5 \times 30 \times 40$

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16. Find the product using suitable rearrangement:

$25 \times 291 \times 40$

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17. Simplify : $931 \times 95 - 83 \times 931.$

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Solved Examples

1. Write the successor and predecessor of 2006389. Also, find their difference.

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2. Represent 4×4 on number line.

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3. In a school canteen, Seeta spends ₹ 20 on cold drinks everyday. How much money does Seeta spend in 1 week?

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4. What is the product of successor and predecessor of 999?

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5. An officer bought 30 tables and 30 chairs. If the cost of a table is ₹ 500 and that of a chair is ₹ 250, how much did the officer spend?

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6. Represent $1 + 6$ using the number line.

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7. What is the value of $500 \times 681 \times 0 \times 501$?

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8. Verify the associative property of addition and multiplication if $a = 358, b = 962$ and $c = 142$.

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9. In a city, there are 45 schools. Each school has 38 rooms and each room has 98 chairs and tables. How

many chairs and tables will be there in total? Calculate it using suitable property.

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10. Represent $10 - 3$ on number line.

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11. Verify the distributive property of multiplication over addition and subtraction if $a = 128, b = 93, c = 16$.

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12. Find the sum by suitable rearrangement.

$389 + 695 + 895 + 611$

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13. Find the sum by suitable rearrangement.

$537 + 954 + 1463 + 46$

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14. Find the product by suitable rearrangement.

$125 \times 43 \times 160$

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15. Find the product by suitable rearrangement.

$628 \times 96 \times 15$

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16. Simplify the following using suitable property.

$496 \times 450 - 496 \times 380$

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17. Simplify the following using suitable property.

836×105

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18. Simplify the following using suitable property.

$166 \times 180 \times 0$

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19. Use the suitable property to simplify each of the following and also name them.

$148 \times 16 \times 125$

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20. Use the suitable property to simplify each of the following and also name them.

348×505

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21. Use the suitable property to simplify each of the following and also name them.

198×994

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22. Use the suitable property to simplify each of the following and also name them.

$586 \times 4 + 586 \times 6$

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Ncert Section Exercise 2 1

1. Write the next three natural numbers after  10999

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2. Write the three whole numbers occurring just before 1001.

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3. Which is the smallest whole number?

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4. How many whole numbers are there between 32 and 53?

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5. Write the successor of :

2440701

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6. Write the successor of :

100199

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7. Write the successor of :

1099999

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8. Write the successor of :

2345670

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9. Write the predecessor of : (a) 94 (b) 10000 (c) 208090

(d) 7654321

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10. Write the predecessor of :

10000

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11. Write the predecessor of :

208090

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12. Write the predecessor of :

7654321

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13. In each of the following pairs of numbers, state which whole number is on the left of the other number on the number line. Also write them with the appropriate sign ($>$, $<$) between them.

530, 503

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14. In each of the following pairs of numbers, state which whole number is on the left of the other number on the number line. Also write them with the appropriate sign ($>$, $<$) between them.

370, 307

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15. In each of the following pairs of numbers, state which whole number is on the left of the other number on the number line. Also write them with the appropriate sign $(>, <)$ between them.

98765, 56789

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16. In each of the following pairs of numbers, state which whole number is on the left of the other number on the number line. Also write them with the appropriate sign


\left({ > {\rm{ < }}} \right)

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Ncert Section Exercise 2 1 True Or False

1. Zero is the smallest natural number.

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2. 400 is the predecessor of 399.

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3. Zero is the smallest whole number.

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4. 600 is the successor of 599.

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5. (iv) All natural numbers are whole numbers.

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6. All whole numbers are natural numbers.

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7. The predecessor of a two digit number is never a single digit numbers.

8. 1 is the smallest whole number.

9. The natural number 1 has no predecessor.

10. The whole number 1 has no predecessor.

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11. The whole number 13 lies between 11 and 12.

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12. The whole number 0 has no predecessor.

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13. The successor of a two-digit number is always a two-digit number.

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Ncert Section Exercise 2 2

1. Find the sum by suitable rearrangement: (a)  837 + 208 + 363

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2. Find the sum by suitable rearrangement: (a)  837 + 208 + 363

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3. Find the product by suitable rearrangement: (a)  2 \times 1768 \times 50

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4. Find the product by suitable rearrangement: (a)  2 \times 1768 \times 50

Watch Video Solution

5. Find the product by suitable rearrangement:

$8 \times 291 \times 125$

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6. Find the product by suitable rearrangement:

$625 \times 279 \times 16$

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7. Find the product by suitable rearrangement:

$285 \times 5 \times 60$

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8. Find the product by suitable rearrangement:

$125 \times 40 \times 8 \times 25$

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9. Find the value of the following:

$297 \times 17 + 297 \times 3$

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10. Find the value of the following:

$54279 \times 92 + 8 \times 54279$

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11. Find the value of the following:

$81265 \times 169 - 81265 \times 69$

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12. Find the value of the following:

$3845 \times 5 \times 782 + 769 \times 25 \times 218$

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13. Find the product using suitable properties. (a)

 738 \times 103

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14. Find the product using suitable properties. (a)

 738 \times 103

Watch Video Solution

15. Find the product using suitable properties. (a)  738 \times 103

Watch Video Solution

16. Find the product using suitable properties.

1005×168

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17. A taxi driver filled his car petrol tank with 40 litres of petrol on Monday. The next day, he filled the tank with 50

litres of petrol. If the petrol costs Rs 44 per litre, how much did he spend in all on petrol?

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18. A vendor supplies 32 litres of milk to a hotel in the morning and 68 litres of milk in the evening. If the milk costs Rs 15 per litre, how much money is due to the vendor per day?

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19. Match the following:

(i)	425 × 136 = 425 × (6 + 30 +100)	(a)	Commutativity under multiplication.
(ii)	2 × 49 × 50 = 2 × 50 × 49	(b)	Commutativity under addition.
(iii)	80 + 2005 + 20 = 80 + 20 + 2005	(c)	Distributivity of multiplication over addition.

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Ncert Section Exercise 2 3

1. Which of the following will not represent zero?

$1 + 0$

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2. Which of the following will not represent zero?

0×0

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3. Which of the following will not represent zero?

$0/2$

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4. Which of the following will not represent zero?

$(10 - 10)/2$

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5. If the product of two whole numbers is zero, can we say that one or both of them will be zero? Justify through examples.

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6. If the product of two whole numbers is 1, can we say that one or both of them will be 1? Justify through examples.

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7. Find using distributive property:

728×101

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8. Find using distributive property : (a) 728 \times 101

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9. Find using distributive property:

824×25

Watch Video Solution

10. Find using distributive property : (a) 728 \times 101

Watch Video Solution

11. Find using distributive property : (a) 728 \times 101

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12. Study the pattern :

$1 \times 8 + 1 = 9$ $1234 \times 8 + 4 = 9876$

$12 \times 8 + 2 = 98$ $12345 \times 8 + 5 = 98765$

$123 \times 8 + 3 = 987$

Write the next two steps. Can you say how the pattern works?

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Exercise Multiple Choice Questions Level 1

1. Which one of the following whole numbers does not have a predecessor? 1 (b) 0 (c) 2 (d) none of these

A. 2

B. 0

C. 1

D. 1000

Answer:

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2. What is the value of n if

$(9 \times 4) + (n \times 5) = 9 \times (4 + 5)$?

A. 9

B. 4

C. 5

D. none of these

Answer:

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3. What is the additive identity element in the set of whole numbers? 0 (b) $1 - 1$ (d) None of these

A. 1

B. 0

C. 2

D. does not exist

Answer:

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4. What is the successor of 871929?

A. 872030

B. 871930

C. 872930

D. 971929

Answer:

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5. What is the identity element with respect to multiplication?

A. 0

B. 2

C. 1

D. none of these

Answer:

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6. The value of $2575 \div 25 + 2575 \div 2575$ is _____.

A. 1

B. 103

C. 104

D. 102

Answer:

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7. The commutative property for multiplication states that _____.

A. $a + b = b + a$

B. $a \times b = b \times a$

C. $a \times (b + c) = (a \times b) + c$

D. $a + (b + c) = (a + b) + c$

Answer:

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8. If a is any whole number, then $0 \div a$ is _____.

A. a

B. 1

C. 0

D. not defined

Answer:

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9. The value of c in $(18+9)+45=18+(9+c)$ is _____.

A. 9

B. 54

C. 45

D. 18

Answer:

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10. The value of $258 \times 96 + 258 \times 4$ is _____.

A. 2580

B. 258

C. 25800

D. 100

Answer:

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11. What is the successor of predecessor of 1 lakh?

A. 1,00,001

B. 1,00,000

C. 99999

D. 99998

Answer:

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12. Solve : $1446 \times 0 \times 8432$

A. 12192672

B. 1446

C. 8432

D. 0

Answer:

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13. Whole numbers are not commutative under _____.

A. Multiplication

B. Subtraction

C. Addition

D. Both multiplication and addition

Answer:

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14. The population of a town is 20,000. If 7000 are men and 9200 are women, find the number of children?

A. 13000

B. 3880

C. 13800

D. 3800

Answer:

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15. Which of the following will not represent zero?

A. $113 \times 14 \times 0$

B. 0×0

C. $0 \div 2$

D. $12 \div 0$

Answer:

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16. Find predecessor of $5628 + 97348$.

A. 906126

B. 127906

C. 102975

D. 102976

Answer:

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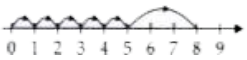
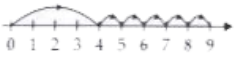
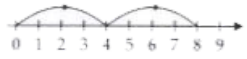
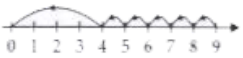
17. Which of the following number line represents $4 + 5$?

A. 

B. 

C. 

D. 

Answer:

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18. $98 + (52 \times 10)$ = _____.

A. $98 + 52 \times 98 + 10$

B. $98 + 528$

C. $98 + (10 \times 25)$

D. $98 + 520$

Answer:

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19. The successor of $5832 + 94167$ is _____.

A. 99999

B. 100006

C. 100000

D. 900000

Answer:

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20. The smallest whole number is

A. 0

B. 1

C. 2

D. 3

Answer:

Watch Video Solution

21. $95 \div 0$ = _____

A. $0 \div 95$

B. 1

C. 95

D. not defined

Answer:

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22. $1935 \times 782 \times 15$ = _____.

A. $1935 \times 43 \times 252$

B. $15 \times 982 \times 768$

C. $46 \times 1935 \times 255$

D. $148 \times 596 \times 482$

Answer:

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23. The product of the predecessor and successor of the largest 4-digit number formed from the digits 3, 0, 8, 2 is _____.

A. 69222939

B. 6922399

C. 96222399

D. 69222399

Answer:

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24. The predecessor of 1 million is _____.

A. 9999

B. 99999

C. 999999

D. 9999999

Answer:

Watch Video Solution

25. $986 \times 151 + 986 \times 251 + 986 \times 123 =$ _____.

A. 561705

B. 517650

C. 451750

D. 489650

Answer:

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26. Which of the following is incorrect?

A. 999 is the predecessor of the smallest 4-digit number.

B. The natural number 1 has no predecessor

C. The predecessor of a 2-digit number cannot be a single digit number.

D. 100 is the successor of the greatest two digit number

Answer:

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27. The predecessor of 8350 is _____.

A. 8347

B. 8348

C. 8349

D. 8351

Answer:

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28. What must be added to 867 to make to 10000?

A. 133

B. 143

C. 9133

D. 9143

Answer:

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29. $22(22+22)$ is equal to _____.

A. 968

B. 986

C. 988

D. 966

Answer:

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30. Find the sum by suitable rearrangement.

$1 + 2 + 3 + 4 + 196 + 197 + 198 + 199$

A. 700

B. 900

C. 800

D. 1000

Answer:

Watch Video Solution

31. Using suitable property, find the value of $1265 \times 1265 - 1265 \times 265$.

A. 1265000

B. 126500

C. 12650

D. 1265

Answer:

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32. Which of the following is true?

A. $510 > 201$

B. $510 < 501$

C. $510 = 201$

D. none of these

Answer:

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33. $(5 + 2) + 8 = 5 + (2 + 8)$ is known as _____.

A. commutativity of addition

B. associativity of addition

C. commutativity of multiplication

D. associativity of multiplication

Answer:

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34. Find the product by rearranging suitably: $199 \times 8 \times 125$

A. 199000

B. 99000

C. 100099

D. 19900

Answer:

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35. 66,666 is the successor of _____.

A. 666665

B. 66668

C. 66667

D. 66665

Answer:

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Exercise Multiple Choice Questions Level 2

1. Which of the following statements does not hold true for the whole numbers, a, b and c?

A. $a \div (b \div c) = (a \div b) \div c$

B. $a + (b + c) = (a + b) + c$

C. $a \times (b \times c) = (a \times b) \times c$

D. $a + b = b + a$

Answer:

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2. Which expression does not have the same value as the expression $9 \times (6 + 46)$?

A. 9×52

B. $9 \times 6 + 9 \times 46$

C. $(9 + 6) \times (9 + 46)$

D. $9 \times (46 + 6)$

Answer:

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3. There are six poles on a side of a 1 km 200 m long straight road such that there is a pole at the starting and end point of the road. If the poles are equally spaced, then what is the distance between each consecutive pole?

A. 200 m

B. 210 m

C. 230 m

D. 240 m

Answer: 240m

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4. Find the product using distributive property $149 \times 70 + 149 \times 20 + 149 \times 10.$

A. 14800

B. 34000

C. 14900

D. 20800

Answer:

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5. Find the product of predecessor of greatest 4-digit number and the successor of greatest 3-digit number.

A. 9899000

B. 9998000

C. 8989000

D. 9989000

Answer:

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6. The product of the successor and predecessor of 199 is _____.

A. 19800

B. 39600

C. 10990

D. 19700

Answer:

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7. Which of the following statements is correct?

A. Between any two whole numbers there is a whole number

B. If a and b are whole numbers and $a < b$, then $a + 1 < b + 1$.

C. Every whole number has its predecessor

D. 0 is the smallest natural numbers

Answer:

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8. Find the value of

$5670 \times 353 + 810 \times 7 \times 677 - 5670 \times 29 - 5670.$

A. 56700

B. 5760000

C. 5880000

D. 5670000

Answer:

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9. If a = 20, b = 5 and c = 2, then find $(a \div b) \div c.$

A. 2

B. 4

C. 3

D. $1/2$

Answer:

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10. For a = 8, b = 5 and c = 7, which of the following is not true?

A. $a + b = b + a$

B. $(a + b) + c = a + (b + c)$

C. $(a \times b) \times c = a \times (b \times c)$

D. $a - b = b - a$

Answer:

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11. Simplify : $273 \times 42 + 273 \times 50 + 273 \times 8$

A. 25935

B. 27300

C. 2730

D. 273

Answer:

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12. A fruit seller placed 12 bananas, 10 oranges and 6 apples in a fruit basket. Tarun buys 3 fruit baskets for a function. What is the total number of fruits in these 3 baskets?

A. 66

B. 84

C. 48

D. 68

Answer:

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13. Which of the following is correct?

A. Whole number divided by 0 is always 0

B. If $78 \times (x + 25) = 125 \times 78$, then $x = 75$

C. If $a = 105, b = 516$ and $c = 985$, then $a + (b + c)$ is a whole number

D. The only property satisfied by by subtraction of whole numbers is closure property

Answer:

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14. Aarav filled his car petrol tank with 30 litres of petrol on Monday. The next day, he filled the tank with 25 litres of petrol. If the petrol costs ₹ 52 per litre, how much did he spend on petrol in two days?

A. ₹ 55

B. ₹ 6820

C. ₹ 2860

D. ₹ 189

Answer:

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15. Which of the following is true?

A. $(12 \times 100) - (12 \times 1) = 12 \times 1001$

B. $58 \times 101 = (58 \times 100) - (58 \times 1)$

C. $8 \times 51 \times 125 = 1000 \times 51$

D. $(13 \times 46) + (13 \times 15) - (13 \times 39) = 13 \times 100$

Answer:

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Exercise Match The Following

1. Match the following :

	List-I		List-II
(P)	Distributive property shows	1.	$98 \times (25 \times 40) = (98 \times 25) \times 40$
(Q)	Associative property shows	2.	$48 \times 100 + 48 \times 2 = 48 \times (100 + 2)$
(R)	Commutative property shows	3.	1
(S)	Multiplicative identity for whole numbers is	4.	$25 + 63 = 63 + 25$

A. P-1, Q-3, R-4, S-2

B. P-2, Q-4, R-1, S-3

C. P-2, Q-1, R-4, S-3

D. P-3, Q-1, R-4, S-2

Answer:

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2. Match the following :

	List-I		List-II
(P)	$1983 + 647 + 217 + 353 =$	1.	124384
(Q)	$736 \times 169 =$	2.	3200
(R)	$569 \times 17 + 569 \times 13 + 569 \times 70 =$	3.	631000
(S)	$631 \times 10 \times 467 - 367 \times 6310 =$	4.	56900

A. P-2, Q-4, R-3, S-1

B. P-2, Q-1, R-4, S-3

C. P-1, Q-4, R-3, S-2

D. P-1, Q-2, R-4, S-3

Answer:

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Exercise Assertion Reason Type

1. Assertion : 1000 is the successor of 999.

Reason : We get the successor of a whole number, if we subtract 1 from it.

A. If both assertion and reason are true and reason is the correct explanation of assertion

B. If both assertion and reason are true but reason is not the correct explanation of assertion

C. If assertion is true but reason is false

D. If assertion is false but reason is true

Answer:

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2. Assertion : 8932 is greater than 8392.

Reason : Greater number lies on the right side of one of the two whole numbers on the number line.

A. If both assertion and reason are true and reason is the correct explanation of assertion

B. If both assertion and reason are true but reason is not the correct explanation of assertion

C. If assertion is true but reason is false

D. If assertion is false but reason is true

Answer:

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3. Assertion : If a is a whole number, then $a + 0 = 0 + a = a$.

Reason : If a and b are whole numbers, then $a + b$ is also a whole number.

A. If both assertion and reason are true and reason is the correct explanation of assertion

B. If both assertion and reason are true but reason is not the correct explanation of assertion

C. If assertion is true but reason is false

D. If assertion is false but reason is true

Answer:

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4. Assertion : If $a = 16, b = 12$, then $a \times b = 192$ is a whole number.

Reason : Closure property holds over multiplication.

A. If both assertion and reason are true and reason is the correct explanation of assertion

B. If both assertion and reason are true but reason is not the correct explanation of assertion

C. If assertion is true but reason is false

D. If assertion is false but reason is true

Answer:

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5. Assertion : The sum of $278 + 691 + 221$ is 1901.

Reason : If a, b and c are three whole numbers, then $(a + b) + c = a + (b + c)$.

A. If both assertion and reason are true and reason is the correct explanation of assertion

B. If both assertion and reason are true but reason is not the correct explanation of assertion

C. If assertion is true but reason is false

D. If assertion is false but reason is true

Answer:

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Exercise Comprehension Type

1. If a, b, c are three whole numbers then $(a+b)+c=a+(b+c)$ and $a\times(b+c)=a\times b+a\times c$

Find the value of $1546+(984+5389)$.

A. 1917

B. 2530

C. 7990

D. 7919

Answer:

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2. If a, b, c are three whole numbers then $(a+b)+c=a+(b+c)$ and $a\times(b+c)=a\times b+a\times c$

Find the product of 125×109.

A. 10900

B. 13625

C. 12500

D. 13256

Answer:

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3. If a, b, c are three whole numbers then $(a+b)+c=a+(b+c)$ and $a\times(b+c)=a\times b+a\times c$

State the property used in the following statement.

$661\times 93+661\times 7=661\times(93+7)$

A. Commutative property

B. Associative property

C. Distributive property

D. Closure property

Answer:

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4. Mayank consumes each of mango juice can priced at ₹ 50 and lichi juice can priced at ₹ 60 everyday.

Mayank spends on lichi juice in five days is

A. ₹ 12

B. ₹ 300

C. ₹ 250

D. ₹ 200

Answer:

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5. Mayank consumes each of mango juice can priced at ₹ 50 and lichi juice can priced at ₹ 60 everyday.

Total money spent by Mayank in 3 days is

A. ₹ 300

B. ₹ 320

C. ₹ 330

D. ₹ 150

Answer:

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6. Mayank consumes each of mango juice can priced at ₹ 50 and lichi juice can priced at ₹ 60 everyday.

If Mayank consumes three cans of mango juice and 2 cans of lichi juice each day, then how much money he will spent in 3 days?

A. ₹ 500

B. ₹ 650

C. ₹ 700

D. ₹ 810

Answer:

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Exercise Subjective Problems Very Short Answer Type

1. What is the difference of the successor and predecessor of the place value of 2 in 2,35,716?

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2. Find the value of $(565 \div 565) + (278 \div 278)$.

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3. What number should be replace by x?

$(6 \times 2) + (x + 3) = 6 \times (2 + 3)$

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4. Calculate : $21 \times 95 \times 0$

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5. Find the sum of $437 + 200 + 633$ using the properties of addition.

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6. Find the value of $5 - 4$ by using number line.

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7. 90 orange can be packed in one box. How many boxes will be required to pack 7200 oranges?

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8. Using distributive law, find 937×1007.

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9. Find the sum : $1 + 2 + 3 + 4 + 96 + 97 + 98 + 99$.

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10. Write down the successor and predecessor of 2009009.

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Exercise Subjective Problems Short Answer Type

1. Find the products by suitable rearrangement:

$8 \times 391 \times 125$

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2. Find the products by suitable rearrangement:

$625 \times 86 \times 1600$

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3. Find the value of each of the following.

$0 \div 1657$

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4. Find the value of each of the following.

$8086 \div 1$

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5. Find the value of each of the following.

1×9685

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6. Find the value of each of the following.

659×0

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7. In a shop, one notebook costs ₹ 15, a pencil costs ₹ 10 and a pen costs ₹ 20. How much money does Meena spend for 3 notebooks, 5 pencils and 2 pens?

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8. Find the predecessor of the difference between the smallest 7-digit number and the largest 4-digit number.

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9. Find the value of each of the following by using suitable properties :

$8937 \times 648 + 8937 \times 122 + 8937 \times 230$

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10. Find the value of each of the following by using suitable properties :

$785 \times 94 + 785 \times 6$

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11. Find the value of each of the following by using suitable properties :

$1063 \times 127 - 127 \times 1063$

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12. Find the value of each of the following by using suitable properties :

$9936 \times 105 - 105 \times 368 \times 27$

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13. Verify the distributive property of multiplication over addition if a = 968, b = 846 and c = 154.

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14. Represent the following on number line.

$16 - 11$

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15. Represent the following on number line.

$10 - 2$

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16. By using the properties, find the value of

$53 \times 17 + 40 \times 17 - 6 \times 17.$

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17. The cost of a purse and a steel tiffin box is ₹ 250 and ₹ 290 respectively. Find the total cost of 11 such purses and 11 tiffin boxes.

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18. If a = 40, b = 80 and c = 160, find the value of :

$(a \div b) \div c \& a \div (b \div c)$

Are the two values equal?

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19. If a = 120, b =60 and c = 30, find the value of :

$a \div (b \div c)$ and $(a \div b) \div c$

Are the two values equal?

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Exercise Subjective Problems Long Answer Type

1. Write the predecessor and the successor of the smallest number formed by using the digits 4, 0, 3, 5 only once.

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2. Represent the following on number line.

2×9

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3. Represent the following on number line.

$4 + 12$

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4. Represent the following on number line.

$16 - 12$

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5. Represent the following on number line.

5×4

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6. Represent the following on number line.

$8 + 9$

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7. Represent the following on number line.

$9 - 8$

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8. By using suitable properties, find the value of each of the following.

$445 + 600 + 555 + 1400$

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9. By using suitable properties, find the value of each of the following.

$331 \times 129 - 331 \times 29$

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10. By using suitable properties, find the value of each of the following.

$250 \times 60 \times 50 \times 8$

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11. By using suitable properties, find the value of each of the following.

756×96

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12. Find the product of the successor and predecessor of each of the following.

MCI

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13. Find the product of the successor and predecessor of each of the following.

CDXVI

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14. Find the product of the successor and predecessor of each of the following.

DCCVIII

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15. Rohan has a total of ₹ 1900. He distributes one pencil to each 30 students and 1 pen to each 45 teachers. The cost of each pencil and each pen is ₹ 10 and ₹ 26 respectively. After purchasing all the items, how much money is left with Rohan if he lost ₹ 200?

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Exercise Integer Numerical Value Type

1. What is the value of $(490 - 90) \div 20$?

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2. If $m \div 18 = 0$, then find the value of m.

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3. What is the product of the successor of 49 and predecessor of 21?

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4. What is the successor of product of 35 and 12?

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5. What is the additive identity for whole numbers?

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6. Find 'a' so that the expression becomes $(a + 10) + 7 = 4 + (10 + 7)$.

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7. The whole number which has no predecessor is

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8. Find the difference between the successor and predecessor of 98×65.

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9. What is the product of digits of sum of $1 + 12 + 3 + 8$?

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10. What is the thrice of multiplicative identity for whole numbers?

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Olympiad Hots Corner

1. A milkman supplies 34 L of full cream milk and 54 L of toned milk everyday in Palam Vihar. The toned milk costs ₹ 48 per litre and full cream milk costs ₹ 56 per litre. How much money the milkman will earn in the month of June?

A. ₹ 124640

B. ₹ 134880

C. ₹ 101732

D. ₹ 145650

Answer:

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2. Which of the following properties is shown in the given expression?

$72(4+5) = 72 \times 4 + 72 \times 5$

A. Commutative property

B. Associative property

C. Distributive property

D. Closure property

Answer:

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3. Using distributive property, 258×1008 =

A. $258 + 1000 + 8$

B. $258 \times 1000 + 258 \times 8$

C. $258 \times 1000 + 8$

D. $1000 + 8 \times 258$

Answer:

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4. Which of the following does not represent zero?

A. $\frac{1}{0}$

B. 0×9

C. $\frac{0}{2}$

D. $\frac{3-3}{2}$

Answer:

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5. When we multiply a whole number and the multiplicative identity of whole numbers, then we get _____.

A. The whole number itself

B. The multiplicative identity

C. 0

D. Negative of that number

Answer:

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6. Which of the following statements is incorrect for whole numbers?

A. They are closed under addition and multiplication

B. Division by 0 is not defined

C. Addition and subtraction are commutative

D. Multiplication is distributive over addition.

Answer:

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7. Match the Column-I with Column-II.

If a,b,c, are whole numbers, then

Column-I	Column-II
(i) $a + b = b + a$	(a) Distributivity of multiplication
(ii) $(a + b) + c = a + (b + c)$	(b) Commutativity under addition
(iii) $a \times (b + c) = a \times b + a \times c$	(c) Associativity of addition
	(d) Commutativity under multiplication

A. i $\rightarrow$ c, ii $\rightarrow$ d, iii $\rightarrow$ a

B. i $\rightarrow$ b, ii $\rightarrow$ c, iii $\rightarrow$ d

C. i $\rightarrow$ a, ii $\rightarrow$ b, iii $\rightarrow$ c

D. i $\rightarrow$ b, ii $\rightarrow$ c, iii $\rightarrow$ a

Answer:

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8. 2500 metres of cotton cloth was made into 20 rolls of 30 m each and 25 rolls of 20 m each. Find the length of the remaining cloth in metres and how many rolls of 70 m can be made with the remaining cloth?

A. 700 m, 10

B. 1400 m, 20

C. 2100 m, 30

D. None of these

Answer:

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9. Which of the following number of dots cannot be arranged as a triangle?

A. 3

B. 6

C. 8

D. 10

Answer:

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10. Which of the following statements is correct?

A. 50 is the predecessor of 49

B. Every natural number has a predecessor

C. Division by zero is not defined

D. Every whole number has a predecessor

Answer:

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11. Which of the following statements is true?

A. All natural numbers are also whole numbers

B. All whole numbers are also natural numbers

C. There is no smallest whole number

D. The greatest whole number is 100

Answer:

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12. Which of the following statements is true?

A. The predecessor of the smallest 2-digit whole number is a greatest 1 - digit whole number.

B. There are 10 whole numbers between 11 to 21

C. The successor of a two digit number is always a two digit number

D. Multiplicative identity of whole number is zero

Answer:

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13. Which of the following number of dots cannot be arranged as a rectangle?

A. 4

B. 6

C. 8

D. 7

Answer:

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Olympiad Hots Corner Fill In The Blanks

1. Predecessor of smallest 3-digit number is _.

A. 100

B. 99

C. 98

D. 101

Answer:

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2. ..... is the multiplicative identity in whole numbers.

A. 1

B. 99

C. 0

D. 98

Answer:

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3. R is the additive identity of whole numbers.

A.

P	Q	R	S
100	1	0	1

B.

P	Q	R	S
99	1	0	0

C.

P	Q	R	S
98	0	1	0

D.

P	Q	R	S
101	0	1	1

Answer:

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4. _ is the only whole number which does not have predecessor.

A. 1

B. 0

C. 2

D. 3

Answer:

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5. Every natural number has a _____ except _____ and has a _____.

A. Successor, 0, predecessor

B. Successor, 1, predecessor

C. Predecessor, 0, successor

D. Predecessor, 1, successor

Answer:

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