MATHS

NCERT - NCERT MATHEMATICS(ENGLISH)

PLAYING WITH NUMBERS

Solved Examples

1. Check the divisibility of 15287 by 3.

A. yes

B. no

C. null

D. null

Answer: null

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2. Check the divisibility of 2146587 by 3.

A. 12

B. 13

C. 14

D. 11

Answer: D

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3. If the three digit number 24x is divisible by 9, what is the value of x?

A. 3

B. 2

C. 4

D. 6

Answer: A

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4. Check the divisibility of 21436587 by 9.

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5. Solve the cryptarithm: $BAXB3 = 57A$

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6. Find Q in the addition.

$31Q + 1Q3 = 501$

A. 8

B. 2

C. 4

D. 6

Answer: A

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7. Check the divisibility of 152875 by 9.

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8. Find A and B in the addition.

$$A + A + A = BA$$

A. 1,5

B. 5,1

C. 1,2

D. 2,1

Answer: B

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Exercise 16 2

1. If 21y5 is a multiple of 9, where y is a digit, what is the value of y?

A. 1

B. 2

C. 3

D. 4

Answer: A

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2. If 31z5 is a multiple of 3, where z is a digit, what might be the values of z?

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3. If 31z5 is a multiple of 9, where z is a digit, what is the value of z? You will find that there are two answers for the last problem. Why is this so?

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Exercise 16 1

1. Find the values of the letters and give reasons for the steps involved.

$12A + 6AB = A09$

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2. Find the values of the letters and give reasons for the steps involved.

$2AB + AB1 = B18$

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3. Find the values of the letters and give reasons for the steps involved.

$A1 + 1B = B0$

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4. Find the values of the letters and give reasons for the steps involved. $3A + 25 = B2$

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5. Find the values of the letters and give reasons for the steps involved. $1A \times A = 9A$

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6. Find the values of the letters and give reasons for the steps involved. $4A + 98 = CB3$

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7. Find the values of the letters and give reasons for the steps involved.

$AB \times 3 = CAB$

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8. Find the values of the letters and give reasons for the steps involved.

$AB + 37 = 6A$

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9. Find the values of the letters and give reasons for the steps involved.

$AB \times 6 = BBB$

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10. Find the values of the letters and give reasons for the steps involved.

$AB \times 5 = CAB$

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