



MATHS

BOOKS - ICSE

PLAYING WITH NUMBERS

Example

1. Is the sum of two digit numbers 62 and 26 divisible by 8 and 11 ? Explain.



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2. Find the quotient when $83 - 38$ is divided by
(i) 9 (ii) 5.



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3. Find the quotient when $821 + 218 + 182$ is
divided by 111. Will the sum also be divisible by
11 ? Explain.



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4. Solve the following cryptarithms :

$$\begin{array}{r} 31A \\ + 1A3 \\ \hline 501 \end{array}$$

$$\begin{array}{r} B9 \\ + 4A \\ \hline 65 \end{array}$$

$$\begin{array}{r} 8A5 \\ + 94A \\ \hline 1A33 \end{array}$$



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5. Find A and B in the addition :

$$\begin{array}{r} A \\ + A \\ + A \\ \hline _ _ \\ BA \\ \hline _ _ \end{array}$$



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6. Find the values of A, B and C

$$\begin{array}{r} 46A \\ -CB9 \\ \hline 275 \end{array}$$



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7. Find the values of A and B.

$$\begin{array}{r} \text{B} \quad \text{A} \\ \times \quad 6 \\ \hline \text{C} \quad 8 \quad 8 \end{array}$$

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8. If $42x$ is divisible by 9, find the value of digit x .

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9. If $5x21$ is divisible by 9, find the value of digit x .



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10. If $24a5$ is a multiple of 3 i.e. divisible by 3, find the value of digit a .



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11. If $3x72$ is divisible by 3, find the value of x .



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12. $21y8$ is a multiple of 6, find the value of digit y .



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13. $13z4$ is divisible by 6, find the value of digit z .



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14. $2y5$ is divisible by 11, find the value of digit y .



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15. $67x19$ is a multiple of 11. Find all possible values of digit x .



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16. Find the value of digit z , if $12z4$ is divisible by 4.



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Exercise 5 A

1. Write the quotient when the sum of 73 and 37 is divided by :

(i) 11, (ii) 10



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2. Write the quotient when the sum of 94 and 49 is divided by :

(i) 11, (ii) 13



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3. Find the quotient when $73 - 37$ is divided by:

(i) 9 (ii) 4



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4. If $a = b$, show that $abc = bac$.



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5. Find the quotient when $94 - 49$ is divided by:

(i) 9 (ii) 5



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6. Show that $527 + 752 + 275$ is exactly divisible by 14.



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7. if $a > c$, show that $abc - cba = 99(a - c)$



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8. if $c > a$, show that $cba - abc = 99(c - a)$



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9. if $a = c$, show that $cba - abc = 0$



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Exercise 5 B

3A

+25

1. — —

B2

— —



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9 8

+4 A

2. - -

CB3

- -



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A 1

+1 B

3. - -

B 0

- -



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2 A B

+ A B 1

4. — — —

B 1 8

— — —



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1 2 A

+ 6 A B

5. — — —

A 0 9

— — —



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1 A

x A

6. — —

9 A

— —



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7. Find value of A & B:

A B

x 6

— — —

B B B

— — —



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A B

x 5

8. — — —

C A B

— — —



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A B

x 5

9. — — —

C A B

— — —



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8 A 5

+ 9 4 A

10. — — —

1 A 3 3

— — —



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6 A B 5

+ D 5 8 C

11. — — —

9 3 5 1

— — —



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Exercise 5 C

1. Find which of the following numbers are divisible by 2 :

(i) 192 (ii) 1660 (iii) 1101 (iv) 2079



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2. Find which of the following numbers are divisible by 3 :

(i) 261 (ii) 777

(iii) 6657 (iv) 2574

A. (i) and (ii)

B. (iii) and (iv)

C. All

D. None of these

Answer: All



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3. Find which of the following numbers are divisible by 4 :

(i) 360 (ii) 3180

(iii) 5348 (iv) 7756

A. (i) and (ii)

B. (iii) and (iv)

C. All

D. None of these

Answer: C



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4. Find which of the following numbers are divisible by 5 :

(i) 3250 (ii) 5557

(iii) 39255 (iv) 8204

A. (i)

B. (ii)

C. (i) and (iii)

D. (iv)

Answer: C



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5. Find which of the following numbers are divisible by 10 :

(i) 5100 (ii) 4612

(iii) 3400 (iv) 8399



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6. Find which of the following numbers are divisible by 11 :

(i) 2563 (ii) 8307 (iii) 95635



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Exercise 5 D

1. For what value of digit x , is

$1x5$ divisible by 3 ?



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2. $31x5$ divisible by 3 ?

A. 0, 3, 6 or 9

B. 0, 4, 8 or 7

C. 1, 3, 5 or 7

D. 2, 4, 6 or 8

Answer: A



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3. $28x6$ a multiple of 3 ?

A. 2, 5 or 8

B. 3, 5 or 7

C. 3, 7 or 8

D. 4, 8 or 9

Answer: A



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4. $24x$ divisible by 6 ?

A. 3 or 6

B. 2 or 8

C. 0 or 8

D. 0 or 6

Answer: D



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5. $3x26$ a multiple of 6 ?

A. 1, 4 or 7

B. 2, 5 or 9

C. 3, 5 or 7

D. 3, 7 or 9

Answer: A



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6. $42x8$ divisible by 4 ?

A. 3, 1, 6, 8 and 9

B. 1, 2, 5, 7 and 8

C. 3, 4, 6, 8 and 9

D. 0, 2, 4, 6 and 8

Answer: D



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7. $142x$ is a multiple of 4 ?

A. 1, 3 or 4

B. 0, 4 or 8

C. 2, 5 or 7

D. 3, 5 or 9

Answer: B



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8. $7x34$ divisible by 9 ?

A. 4

B. 5

C. 6

D. 7

Answer: A



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9. $5x555$ a multiple of 9 ?

A. 5

B. 6

C. 7

D. 8

Answer: C



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10. $3x^2$ divisible by 11 ?

A. 5

B. 6

C. 7

D. 8

Answer: A



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11. $5x^2$ a multiple of 11 ?

A. 6

B. 7

C. 8

D. 9

Answer: B



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