

Grade 8 Playing with Numbers Worksheets

Grade 8 Maths Playing with Numbers Multiple Choice Questions (MCQs)

1. If $31z6$ is a multiple of 9 then the value of z is:

- (a) 0
- (b) 4
- (c) 8
- (d) 9

2. If $1A \times A = 9A$, then what is the value of A ?

- (a) 3
- (b) 5
- (c) 6
- (d) 2

3. If $BA \times B3 = 57A$, then the value of A and B is:

- (a) $A = 5, B = 2$
- (b) $A = 2, B = 5$
- (c) $A = 5, B = 3$
- (d) $A = 3, B = 5$

4. If $2AB + AB1 = B18$, then the value of A and B is:

- (a) $A = 5, B = 8$
- (b) $A = 2, B = 5$
- (c) $A = 7, B = 9$
- (d) $A = 4, B = 7$

5. If $AB \times 6 = BBB$, then the value of A and B is:

- (a) $A = 7, B = 4$
- (b) $A = 0, B = 1$
- (c) $A = 1, B = 0$
- (d) $A = 9, B = 7$

6. If $8A5 + 94A = 1A33$, then what is the value of A ?

- (a) 0
- (b) 4
- (c) 8
- (d) 9

7. If $2y25$ is a multiple of 9, where y is a digit then the value of y is:

- (a) 0
- (b) 3
- (c) 1
- (d) 2

8. If $31y5$ is a multiple of 3, where y is a digit then the value of y is:

- (a) 0
- (b) 1

- (c) 2
- (d) None of these

9. If $24x$ is a multiple of 11, where x is a digit then the value of x is:

- (a) 0
- (b) 1
- (c) 2
- (d) None of these

10. If $66784y$ is divisible by 9, where y is a digit then the value of y is:

- (a) 0
- (b) 3
- (c) 1
- (d) None of these

Class 8 Maths Playing with Numbers Fill In The Blanks

1. A two digit number ab can be written in standard form as
2. Largest 3-digit number which is divisible by 6 is
3. If we add to 194562 then it is divisible by 5 and 10 both.
4. If we subtract from 53214 then the number so obtained is divisible by 8.
5. Smallest 4-digit number which is divisible by 7 is

Class 8 Maths Playing with Numbers True(T) Or False(F)

1. If a number is divisible by 3 then it is also divisible by 9.
2. If a number is divisible by 8 then it is also divisible by 4.
3. If a number is divisible by 12 then it is also divisible by both 3 and 4.
4. If sum of two consecutive odd numbers is always divisible by 4.
5. If two numbers are co-prime at least one of them must be a prime number.

Class 8 Maths Playing with Numbers Short Answer Type Questions

1. If $35a6$ is divisible by 3, where 'a' is a digit, what are the possible values of 'a'?
2. If $67y19$ is multiple by 9, where 'y' is a digit, what are the possible values of 'y'?
3. If $15x2$ is multiple by 4, where x is a digit, what are the possible values of 'x'?
4. If $67x19$ is divisible by 11, where 'x' is a digit, what are the possible values of 'x'?

Class 8 Maths Playing with Numbers Long Answer Type Questions

Find the value of letters in each of the following:

$$\begin{array}{r} 1. \quad B \ 9 \\ + 4 \ A \\ \hline 6 \ 5 \end{array}$$

$$\begin{array}{r} 2. \quad A \ B \\ + 3 \ 7 \\ \hline 6 \ A \end{array}$$

$$\begin{array}{r} 3. \quad 1 \ 2 \ A \\ + 6 \ A \ B \\ \hline A \ 0 \ 9 \end{array}$$

$$\begin{array}{r} 4. \quad B \ A \\ \times B \ 3 \\ \hline 5 \ 7 \ A \end{array}$$

$$\begin{array}{r} 5. \quad A \\ \times 5 \\ \hline B \ A \end{array}$$

$$\begin{array}{r} 6. \quad A \ B \\ \times B \\ \hline 9 \ B \end{array}$$