



MATHS

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ALGEBRA

Solution Of Textual Questions Page 224

1. Can you write the rule for making pattern

for F?

Table given below gives the number of match

sticks required to make a pattern of Fs.

Number of F's	1	2	3	4	5	6	7	8	
Number of match sticks	4	8	12	16	20	24			



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1. Sarita and Ameena decide to paly a game of expressions. They take the variable x and the number 3 and see how many expressions they can make. The condition is that they should use not more than one out of the four number operations and every expression must have x

in it. Can you help them?

Sarita thinks of (x + 3)

Then Ameena comes up with (x - 3)

Is (3x+5) allowed?

Is (3x + 3) allowed?

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1. Complete the entries in the following table

and explain why your answer is Yes/No.

S.No.	Equation	Value of the Variable	Working	Solution (Yes/No)		
1.	x + 10 = 30	x = 10	$10 + 10 = 20 \neq 30$	No		
2.	x + 10 = 30	x = 30	$30 + 10 = 40 \neq 30$	No		
3.	x + 10 = 30	x = 20	20 + 10 = 30 = 30	Yes		
4.	p-3=7	p=5	5-3=2≠7	No		
5.	p-3=7	p = 15	15-3=12≠7	No		
6.	p-3=7	p = 10	10-3=7=7	Yes		
7.	3n = 21	n = 9	$3 \times 9 = 27 \neq 21$	No		
8.	3n = 21	n = 7	3 × 7 = 21 = 21	Yes		
9.	$\frac{t}{5} = 4$	<i>t</i> = 25	$\frac{25}{5} = 5 \neq 4$	No		
10.	$\frac{t}{5} = 4$	<i>t</i> = 20	$\frac{20}{5} = 4 = 4$	Yes		
11.	21+3=7	1=5	$2 \times 5 + 3 = 10 + 3 = 13 \neq 7$	No		
12.	21+3=7	<i>l</i> = 1	$2 \times 1 + 3$ $= 2 + 3 = 5 \neq 7$	No		
13.	21+3=7	1=2	$2 \times 2 + 3$ = 4 + 3 = 7 = 7	Yes		

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Exercise 111

1. Find the rule, which gives the number of matchsticks required to make the following matchstick patterns. Use a variable to write the rule.

A matchstick pattern of letter T and t

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2. Find the rule, which gives the number of matchsticks required to make the following matchstick patterns. Use a variable to write the

rule.

A matchstick pattern of letter Z as z



3. Find the rule which gives the number of match sticks required to make the following match stick pattern. Use a variable to write the

rule.



For U :



4. Find the rule which gives the number of match sticks required to make the following

match stick pattern. Use a variable to write the

rule.



For V :

5. Find the rule which gives the number of match sticks required to make the following match stick pattern. Use a variable to write the rule.



For E :



6. Find the rule which gives the number of match sticks required to make the following match stick pattern. Use a variable to write the

rule.



For S:

7. Find the rule which gives the number of match sticks required to make the following match stick pattern. Use a variable to write the rule.



For A:



8. We already know the rule for the pattern of letters L,C and F.Some of the ltters fom Q.1 (given above) give us the same rule as that given by L.Which are these ?Why does this happen?



9. Cadets are marching in a parade.There are 5 cadets in a row.What is the rule,which gives the number of cadets,given the number of rows?(Use n for the number of rows.)

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10. If there are 50 mangoes in a box,how will you write the total number of mangoes in terms of the number of boxes ?(Use b for the number of bxes.)



11. the teacher distributes 5 pencils per student.Can you tell how many pencils are neede,given the number of students?(Uses for the number of students.)

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12. A bird flies 1 kilometre in one minute.Can you express the distance covered by the bird

in terms of its flying time in minutes?(Use t for

flying time in minutes)



13. Radha is drawing a dot Rangoli(a beautiful pattern of lines joining dots with chalk powder as in Fig.) She has 8 dots in a row.How many dots will her Rangoli have for r rows ?How many dots are there if there are 8 rows?If there ae 10 rows?







14. Leela is Radha's youger sister.Leela is 4 years younger than Radha.Can you write Leela's age in terms of Radha's age ?Take Radha 's age to be x years.



15. Mother has made laddus.She gives some laddus to guests and family members, still 5

laddus remain .If the number of laddus mother

gave away is I, how many laddus did she make?



16. Oranges are to be transferred from larger boxes into smaller boxes. When a large box is emptied, the oranges from it fill two smaller boxes and still, 10 oranges remain outside. If the number of oranges in a small box is taken to be x, what is the number of oranges in the larger box?





17. Look at the match sticks patterns of squares. The squares are not separate. Two neighbouring square have a common match stick. Observe the patterns and find the rule take gives the number of match sticks in term of numbr of squares.



18. Figs. Below gives a matchstick pattern of triangles. As in Exercise 11 (a) above find the general rule that gives the number of matchsticks in terms of the number of triangles.







1. The side of an equilateral triangle is shown by x. Express the perimeter of the equilateral triangle using x.



2. The side of the regular hexagon (fig. 11.10) is denoted by I. Express the perimeter of the

hexagon using l.



3. A cube is a three-dimensional figure. It has six faces and all of them are identical squares. The length of an edge of the cube is given by l. Find the formula for the total length of the

edges of a cube.



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4. The diameter of a circle is a line, which joins two points on the circle and also passes through the center of the circle. (In the adjoining figure AB is a diameter of the circle, C is its center). Express the diameter of the circle (d) in terms of its radius (r).





5. To find the sum of three numbers 14, 27 and

13. We can have two ways.

We may add 27 and 13 to get 40 and then add

14 to get the sum 54. Thus

This can be done for any three numbers. This property is known as the associativity of the addition of numbers. Express this property which we have already studied in the chapter on Whole Numbers, in a general way, by using variables a,b and c.

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6. To find the sum of three numbers 14, 27 and

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We may add 27 and 13 to get 40 and then add

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This can be done for any three numbers. This

property is known as the associativity of the

addition of numbers. Express this property which we have already studied in the chapter on Whole Numbers, in a general way, by using variables a,b and c.



7. Write 10 other simple expressions and tell

how they have been formed.

x + 4

8. Write 10 other simple expressions and tell

how they have been formed.

y-9



9. Write 10 other simple expressions and tell

how they have been formed.

5a

10. Write 5 other simple expressions and tell

how they have been formed.

 $\frac{x}{7}$

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11. Write 5 other simple expressions and tell how they have been formed.

-3m

12. Write 10 other simple expressions and tell

how they have been formed.

2m + 1



13. Write 5 other simple expressions and tell how they have been formed.

4y - 5

 Make up as many expressions with numbers (no variables) as you can, from three numbers
 3 and 5. Every number should be used not more than once. Use only addition, subtraction and multiplication.

Make the other expressions.

2 imes(5-3)

2. Make up as many express ions with numbers (no variables) as you can, from three numbers 5, 9 and 8. Every number should be used not more than once. Use only addition, subtraction and multiplication.

Make the other expressions.

9 imes(8-5)

3. Make up as many expressions with numbers (no variables) as you from three numbers 5, 7 and 8. Every number should be used not more than once. Use only addition, subtraction and multiplication.

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4. Make up as many expressions with numbers (no variables) as you from three numbers 5, 7 and 8. Every number should be used not more

than once. Use only addition, subtraction and

multiplication.



5. Make up as many expressions with numbers (no variables) as you from three numbers 5, 7 and 8. Every number should be used not more than once. Use only addition, subtraction and multiplication.



6. Make up as many expressions with numbers (no variables) as you from three numbers 5, 7 and 8. Every number should be used not more than once. Use only addition, subtraction and multiplication.

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7. Make up as many express ions with numbers
(no variables) as you can, from three numbers
5, 7 and 8. Every number should be used not
more than once. Use only addition,

subtraction and multiplication.

Make the other expressions.

$$(8+5) imes 7$$

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8. Make up as many expressions with numbers (no variables) as you from three numbers 5, 7 and 8. Every number should be used not more than once. Use only addition, subtraction and multiplication.

9. Which of the following are expression with numbers only?

(x + 9)

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10. Which of the following are expression with

numbers only?

(7 imes 20)-8z
11. Which of the following are expression with

numbers only?

5(9-x)+4 imes 6



12. Which of the following are expression with

numbers only?

10

13. Which of the following are expression with

numbers only?

9x+10

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14. Which of the following are expression with

numbers only?

9-2n

15. Which of the following are expression with

numbers only?

$$(7 imes 20) - (5 imes 10) - 45 + p$$

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16. Identify the operation (addition, Subtraction, division and multiplication) forming the following expressions and tell how the expressions have been formed.

x+9, x-7, z+7, z-17



17. Identify the operation (addition, Subtraction, division and multiplication) forming the following expressions and tell how the expressions have been formed.

$$4x, \frac{x}{8}, 3x$$

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18. Identify the operation (addition, Subtraction, division and multiplication) forming the following expressions and tell how the expressions have been formed.

2y + 17, 2y - 17

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19. Identify the operation (addition,Subtraction, division and multiplication)forming the following expressions and tellhow the expressions have been formed.

2m, 6m+9, -7m+4

9 added to x



21. Give expressins in the following cases:

7 subtracted from p

p multiplied by 7

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23. Give expressins in the following cases:

p divided by 7

7 subtracted from -m

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25. Give expressins in the following cases:

-p multipied by 5

-x divided by 9

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27. Give expressins in the following cases:

p multiplied by -5.

11 added to 2m

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29. Give expressions in the following cases:

11 subtracted from 2m

5 times y to which 3 is added

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31. Give expressions in the following cases:

5 times y from which 3 is subtracted.

y is multiplied by -8

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33. Give expressions in the following cases:

y is multiplied by -8 and then 5 is added to the

result.

y is multiplied by 5 and the result is subtracted from 16.



35. Give expressions in the following cases:

y is multiplied by -5 and the result is added to

16.



36. Form expressions using t and 4.Use not more than one number operation.Every expression must have t in it.

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37. Form expressions using y, 2 and 7.Every expression must have y in it.Use only two number operations.These should be different.

1. Answer the following

Take Sarita's present age to be y years.

What will be her age 5 years from now?

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2. Answer the following

Take Aman present age to be x years.

What was his age 10 years back?





Take Sarita's present age to be y years.

Sarita's grandfrather's age is 6 times her

age.What is grandfather's age?

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4. Answer the following

Take Aman's present age to be x years.

His Grandmother is 5 years younger than

grandfather. What is grandmother's age?



5. Answer the following

Take Sarita's present age to be y years.

Sarita's father's age is 5 years more thabn 3

times Sarit's age.What is her father's age?

6. Answer the following

The length of a rectangular hall is 4 metres

less than 3 times the breadth of the hall.What

is the length ,if the breadth is b metres?



7. Answer the following

A rectangular box has height h cm. Its length is

5 times the height and breadth is 10 cm less

than the length.Express the length and the

breadth of the box in trems of the heigth.



8. Answer the following

Meena, Beena, and Leena are climbing the steps to the hilltop. Meena is at step s, Beena is 8 steps ahead and Leena 7 steps behind. Where are Beena and Meena? The total number of steps to the hilltop is 10 less than 4 times what Meena has reached. Express the

total number of steps using s.



9. Answer the following

A bus travels at v km per hour. It is going from Daspur to Beespur. After the bus has traveled for 5 hours. Beespur is still 20 km away. What id the distance from Daspur to Beespur? Express it using v. **10.** Change the following statements using expressions into statements in ordinary language.(For example, given Salim scores r runs in a cricket match, Nalin scores (r+15) runs. In ordinary language – Nalin scores 15 runs more than Salim).

A notebook costs `p. The book costs 3p.



 Change the following statements using expression into statements in ordinary language.

Tony puts x marbles on the table. He has 5x

marbles in his box.

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12. Change the following statements using expressions into statements in ordinary language.(For example, given Salim scores r

runs in a cricket match, Nalin scores (r+15) runs. In ordinary language – Nalin scores 15 runs more than Salim).

Our class has n students. The school has 20 n

students.

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13. Change the following statements using expressions into statements in ordinary language.(For example, given Salim scores r runs in a cricket match, Nalin scores (r+15) runs. In ordinary language – Nalin scores 15

runs more than Salim).

Jaggu is z years old. His uncle is 4z years old

and his aunt is (4z-3) years old.



14. Change the following statements using expressions into statements in ordinary language.(For example, given Salim scores r runs in a cricket match, Nalin scores (r+15) runs. In ordinary language – Nalin scores 15 runs more than Salim).

In an arrangement fo dots there are r rows.Each row contains 5 dots.

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15. Given : Munnu's age to be 'x' years

Can you guess what (x - 2) may show?

Can you guess what (x + 4) may show?

What (3x+7) may show?

16. Given Sara's age today to be y years. Think of her age in the future or in the past. What will the following expression indicate? $y + 7, y - 3, y + 4\frac{1}{2}, y - 2\frac{1}{2}$ Watch Video Solution

17. Given x students in class like football. What may 3x shows? $3x \rightarrow$ Number of students liking basketball i.e. number of students who like basketball is thrice the students who like football.

What may
$$\frac{x}{2}$$
 show?

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 State which of the following are equation (with a variable). Give reasons for your answer.
Identify the variable from the equation with a variable.

$$10 = x - 5$$





2. State which of the following are equations(with a variable).Give reason for your answer.Identify the variable from the equations with a variable.

(t-7)>5

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3. State which of the following are equations(with a variable). Give reason for your

equations with a variable.

$$\frac{4}{2} = 2$$

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4. State which of the following are equations(with a variable).Give reason for your answer.Identify the variable from the equations with a variable.

7 imes 3-19=8

5. State which of the following are equations(with a variable).Give reason for your answer.Identify the variable from the equations with a variable.

5 imes 4 - 8 = 2x

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6. State which of the following are equations(with a variable).Give reason for your answer.Identify the variable from the

equations with a variable.

$$x - 2 = 0$$



7. State which of the following are equation (with a variable). Give reasons for your answer.Identify the variable from the equation with a variable.

2m < 30



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8. State which of the following are equations(with a variable).Give reason for your answer.Identify the variable from the equations with a variable.
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2n + 1 = 11

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9. State which of the following are equation (with a variable). Give reasons for your answer. Identify the variable from the equation with a

variable.

$$7=(11 imes 5)-(12 imes 4)$$



10. State which of the following are equation (with a variable). Give reasons for your answer. Identify the variable from the equation with a variable.

$$7=(11 imes 2)+p$$

11. State which of the following are equations(with a variable).Give reason for your answer.Identify the variable from the equations with a variable.

20 = 5y

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12. State which of the following are equations(with a variable).Give reason for your answer.Identify the variable from the

equations with a variable.



13. State which of the following are equation (with a variable). Give reasons for your answer.Identify the variable from the equation with a variable.

z + 125 > 24



14. State which of the following are equation (with a variable). Give reasons for your answer.Identify the variable from the equation with a variable.

20 - (10 - 5) = 3 imes 5

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15. State which of the following are equation (with a variable). Give reasons for your answer. Identify the variable from the equation with a
variable.

$$7 - x = 5$$

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16. Complete the entries in the third column of

the table :

S.No.	Equation	Value of Variable	Equations satisfied Yes/No
(a)	10y = 80	$y = 10$ then $10 \times 10 = 100$ $100 \neq 80$	Equation is not satisfied.
(b)	10y = 80	$y = 8$ then $10 \times 8 = 80$ 80 = 80	Equation is satisfied.
(c)	10y = 80	$y = 5$ then $10 \times 5 = 50$ $50 \neq 80$	Equation is not satisfied.



17. Pick out the solutiion from the values given in the bracket next to each equation. Sow that the other values do not satisfy the equation.
3m = 60 (20, 5, 12, 15)

C

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18. Pick out the solutiion from the values given

in the bracket next to each equation. Sow that

the other values do not satisfy the equation.

n + 8 = 20 (12, 8, 20, 0)

19. Pick out the solutiion from the values given in the bracket next to each equation. Sow that the other values do not satisfy the equation.

p - 10 = 5 (0, 10, 5, 15)

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20. Pick out the solutiion from the values given

in the bracket next to each equation. Sow that

the other values do not satisfy the equation.

$$rac{x}{2}=2$$
 (3, 2, 6, 4)

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21. Pick out the solutiion from the values given

in the bracket next to each equation. Sow that

the other values do not satisfy the equation.

r - 4 = 0 (4, -4, 8, 0)

22. Pick out the solutiion from the values given in the bracket next to each equation. Sow that the other values do not satisfy the equation.

x + 4 = 2(-2, 0, 2, 4)



23. Complete the table and by impection of the table find the solution of the eqaution m+10=16.

m	1	2	3	4	5	6	7	8	9	10	-	-	-	
<i>m</i> +10			2						3					



24. Complete the table and by impection of the table find the solution of the eqaution 5t = 35.

1	3	4	5	6	7	8	9	10	11	-	-	-	-	-	-
5t															



25. Complete the table and find the solution of

the eqaution
$$rac{z}{3}=4$$
 using the table.

z	8	9	10	11	12	13	14	1Ś	16	-	-	-	-
$\frac{z}{3}$	$2\frac{2}{3}$	3	$3\frac{1}{3}$					ų					



26. Complete the table and find the solution of

the eqaution m - 7 = 3.

m	5	6	7	8	9	10	11	12	13	
<i>m</i> -7	2							6	(K)	



27. Solve the following riddles, you may yourself construct such riddles. Who am I? Go around a square Counting every corner Thrice and no more! Add the count to me To get exactly thirty four!.



28. Solve the following riddles,you may yourself construct such riddles. Who am I? For each day of the week Make an upcount from me If you make no mistake You will get twenty three!.

29. Solve the following riddles,you may yourself construct such riddles.
Who am I?
I am a special number
Take away from me a six!
A whole cricket team

You will still be able to fix!.

30. Solve the following riddles, you may yourself construct such riddles.
Who am I?
Tell me who I am I shall give a pertty clue!
You will get me backlf you take me out of twenty two!?

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Additional Questions For Practice Very Short Answer Type Questions **1.** Which of the following is an equations.

A.
$$x+2$$

$$B. x - 2$$

C.
$$x - 2 = 0$$

D. none of these

Answer: C



2. Which of the following does not have a solution in integers

- A. x+2=2
- B. x 1 = 7
- C.3x + 1 = 8
- D. none of these

Answer: C

3. x = 3 is the solution of the equation

A.
$$x + 11 = 8$$

B.
$$x + 8 = 5$$

C. x + 8 = 1

D. none of these

Answer: C



4. The operations not involved in forming expression $2x + \frac{2}{x}$ from the variable x and 2 is

A. addition

B. subratction

C. division

D. none of these

Answer: B

5. Quotient of x and 2 added to 9 is

A.
$$\frac{x}{2} + 9$$

B. $\frac{2}{x} + 9$
C. $\frac{x \div 2}{9}$

D. none of these

Answer: A



6. Ria earns Rs x per day and spends Rs y per day. Then her saving for the month of January is

A. Rs (31x - y)

B. Rs 31(x - y)

C. Rs 31(y - x)

D. none of these

Answer: B

7. In -7x the literal factor is

 $\mathsf{A.}-1$

 $\mathsf{B.}-7$

C. x

D. none of these

Answer: C

8. If $2a^2b^2$ and 3ab represents length and breadth of a rectangle room then area is

A. $6a^2b^2$

 $\mathsf{B.}\,2a^2b^2$

 $\mathsf{C.}\, 6a^3b^3$

D. none of these

Answer: C

Letters used to represent numbers are called



10. Fill in the blanks.

Symbol having fixed numerical value is called

Algebraic expression 9x has ____ term.

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12. Fill in the blanks.

The two digit number whose tens digit is y

and one digit is x is _____.



5 less than thrice a number y is ____.

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14. Fill in the blanks.

The value of 5x - 15 = 0 when x = ____.

Trial and error is one of the methods to obtain

the _____.



16. Fill in the blanks.

An equation is the statement in which the

symbol ____ is used.

Literal, like variable is a term that does not

have fixed value -



18. State whether True or False.

If x is a negative integer, -x is a positive integer.



Coefficient of -y in $-2x^2y$ is $(-2x)^2$.

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20. State whether True or False.

Number of angles in a triangle is a variable -

An equation is satisfied by definite value of the

variable -



22. State whether True or False.

If length of rectangle is twice its breadth then

its area is constant -

The equation x - 1 = 0 and 3x - 3 = 0

have same solution.

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24. State whether True or False.

The expression 4x has a variable.

1. How is variable different from a constant?



2. What do you mean by the solution of the equation? How many solutions does a linear equation have?



3. Change the following algebraic expression
into statements using ordinary language.
Rohan is y years old. His father is 3y years old
and his Mother is (3y - 5) years old.

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4. Change the following algebraic expression into statements using ordinary language.
Shopkeeper sold x water melons. There are 4x water melons.



5. Change the following algebraic expression

into statements using ordinary language.

Neeraj is z years old. His wife is (z - 3) years old.

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6. Change the following algebraic expression into statements using ordinary language.
There are x rows of saplings in the garden.
There are 7 sapling in each row.



9. Translate the following into equations

Perimeter of a square is 4 times its sides.



10. Translate the following into equations

Radius of a circle is half the diameter.

1. 3 times a number increased by 5 gives 20.

Find the number.

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2. Twice a number added to 5 times itself is

equal to 70. Find the numbers.



3. Radha pays Rs 81 for 6 pens and 3 pencils. If

the cost of a pen is 4 times the cost of pencil,

how much did she pay for pen?



4. Kavita, Jia and Aarti at multi storeyed apartments. Aarti stays at t^{th} floor. Kavita's flat is 3 floor above Aarti's flat and Jia's flat is 2 floor below Aarti's flat. The total number of floors in the apartment are 2 more than 5

times the floor number where Aarti stays. Express the floor number of Kavita, Jia and total number of floors in terms of t.



Additional Questions For Practice Hots High Order Thinking Skills

1. Observe the pattern of match sticks.



Write the rule to find the number of match

sticks in the pattern involving 7 huts. How many huts will be involved in a pattern having 101 sticks?

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Sample Paper For Practice

1. Coefficient of the variable in the expression

 $3-2x^2$ is
B. -2

 $\mathsf{C.}\,x^2$

D. none of these

Answer: B

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2. Aryan is x years old. His age 7 years ago was

A. x + 7

B. 7x

C. x - 7

D. none of these

Answer: C



3.3 - x means

A. 3 subtracted from x

B. x subtracted from 3

C. x is subtracted 3

D. none of these

Answer: B

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4. There are x toffees in a box. Mother puts 'y' more toffees in the box. The total number of toffees in the box are

A. xy

B. x + y

 $\mathsf{C}.\,\frac{x}{y}$

D. none of these

Answer: B



5. Variable means that it

A. can take different values

B. has a fixed value

C. neither of the two

D. none of these

Answer: A

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6. If x takes the value -1 then the value of the expression 5x - 4 is

A. 1

B. 9

C. -9

D. none of these

Answer: C

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7. Fill in the blanks.

Mathematical expression formed using

arithmetic operations in numbers and

variables is known as _____.

8. Fill in the blanks.

An equation is the statement in which the

symbol ____ is used.

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9. Fill in the blanks.

Trial and error is one of the methods to obtain

the _____.

10. Fill in the blanks.

The value of 2x - 12 is 0 when x = ____.



11. Fill in the blanks.

An algebric expression using the numeral 2 and 3 and the variable x in such a way that only two arithmatic operations are used is



12. Fill in the blanks.

General rule for finding thye number of sticks

in a n triangles for the sequences $\Delta\Delta\Delta\Delta\Delta\Delta$

is ____.

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13. Answer the following.

Difference of two numbers is 7. If you write 'a'

for the smaller number, how do you write the

larger number.





14. Answer the following.

Find the perimeter of the triangle whose three

sides are x, x, y.

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15. Answer the following.

Shopkeeper brought 200 shirts. He sold x shirts every day. Write an algebric expression

to show the number of shirts that would be

left after 1 week.



16. Complete the table and find the solution to

the given equation.

x + 9 = 15



17. Complete the table and find the solution to

the given equation.

6t = 42

1			-	
61				1

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18. Which of the following represent an equation with a variable. Give reasons to justify your answer.

7 imes 2-9=5



19. Which of the following represent an equation with a variable. Give reasons to justify your answer.

m-5>9

Watch Video Solution

20. Which of the following represent an equation with a variable. Give reasons to



21. Which of the following represent an equation with a variable. Give reasons to justify your answer.

27 = 9y

22. Do as directed

Write the expression for

4 times y subtracted from 17



23. Do as directed

Write the expression for

One half of y added to 3



25. Do as directed

Write two equations for which x = 3 is the

solution.

26. Do as directed

Ashok starts from Roorki at 5 : 00 a.m. If the speed of his car is V km/hr and he observe that at 12:00 noon he is just 30 km from Delhi. Find the distance between Delhi and Roorki. Why should we use seat belt during driving?