



NCERT Solutions for 6th Class Maths: Chapter 11-Algebra



indCareer



indCareer



indCareer

NCERT Solutions for 6th Class Maths: Chapter 11-Algebra

Class 6: Maths Chapter 11 solutions. Complete Class 6 Maths Chapter 11 Notes.

NCERT Solutions for 6th Class Maths: Chapter 11-Algebra

NCERT 6th Maths Chapter 11, class 6 Maths Chapter 11 solutions

Exercise 11.1

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

(a) A pattern of letter T as

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

T

(b) A pattern of letter Z as

Z

(c) A pattern of letter U as

U

(d) A pattern of letter V as

V

(e) A pattern of letter E as

E

(f) A pattern of letter S as

S

(g) A pattern of letter A as

A

Answer

(a) Pattern of letter T

= $2n$ (as two matchsticks used in each letter)

(b) Pattern of letter Z

= $3n$ (as three matchsticks used in each letter)

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

(c) Pattern of letter U

= $3n$ (as three matchsticks used in each letter)

(d) Pattern of letter V

= $2n$ (as two matchsticks used in each letter)

(e) Pattern of letter E

= $5n$ (as five matchsticks used in each letter)

(f) Pattern of letter S

= $5n$ (as five matchsticks used in each letter)

(g) Pattern of letter A

= $6n$ (as six matchsticks used in each letter)

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

Answer

The letter 'T' and 'V' that has pattern $2n, 2n$, since 2 matchsticks are used in all these letters.

3. 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)

Answer

Number of rows = n

Cadets in each row = 5

Therefore, total number of cadets = $5n$

4. 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 boxes)

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

Answer

Number of boxes = b

Number of mangoes in each box = 50

Therefore, total number of mangoes = $50b$

5. The teacher distributes 5 pencils per student. Can you tell how many pencils are needed, given the number of students? (Use s for the number of students)

Answer

Number of students = s

Number of pencils to each student = 5

Therefore, total number of pencils needed are = $5s$

6. A bird flies 1 kilometer 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)

Answer

Time taken by bird = t minutes

Speed of bird = 1 km per minute

Therefore, Distance covered by bird = speed \times time = $1 \times t = t$ km

7. Radha is drawing a dot Rangoli (a beautiful pattern of lines joining dots with chalk powder as in figure). 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 are 10 rows?



Answer

Number of dots in each row = 8 dots

Number of rows = r

Therefore, total number of dots in r rows = $8r$

When there are 8 rows, then number of dots = $8 \times 8 = 64$ dots

When there are 10 rows, then number of dots = $8 \times 10 = 80$ dots

8. Leela is Radha's younger 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.

Answer

Radha's age = x years

Therefore, Leela's age = $(x-4)$ years

9. 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 l , how many laddus did she make?

Answer

Number of laddus gave away = l

Number of laddus remaining = 5

Total number of laddus she make = $(l+5)$

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

10. 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 are taken to be x , what is the number of oranges in the larger box?

Answer

Number of oranges in one box = x

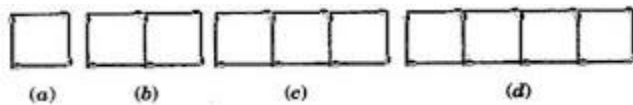
Number of boxes = 2

Therefore, total number of oranges in boxes = $2x$

Remaining oranges = 10

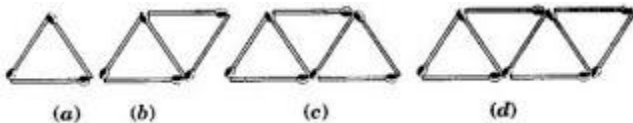
Thus, number of oranges = $2x+10$

11. (a) Look at the following matchstick pattern of squares. The squares are not separate. Two neighbouring squares have a common matchstick. Observe the patterns and find the rule that gives the number of matchsticks in terms of the number of squares.



(Hint: If you remove the vertical stick at the end, you will get a pattern of Cs.)

(b) Figures 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.



Answer

(a)

4 matchsticks

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>



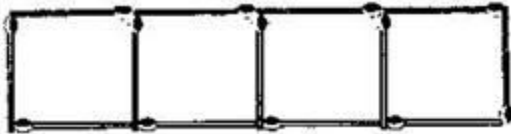
7 matchsticks



10 matchsticks



13 matchsticks



If we remove 1 from each then they makes table of 3, i.e., 3, 6, 9, 12, ...

So, the required equation = $3x+1$, where x is number of squares.

(b)

3 matchsticks



7 matchsticks

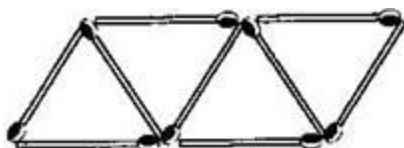
<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>



10 matchsticks



13 matchsticks



If we remove 1 from each then they makes table of 2, i.e., 2, 4, 6, 8, ...

So the required equation = $2x+12x+1$, where x is number of triangles.

NCERT 6th Maths Chapter 11, class 6 Maths Chapter 11 solutions

Exercise 11.2

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

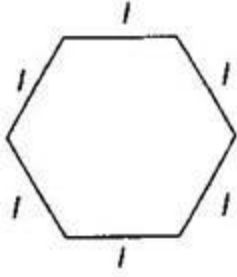
Answer

Side of equilateral triangle = l

Therefore, Perimeter of equilateral triangle = $3 \times \text{side} = 3l$

2. The side of a regular hexagon is denoted by l . Express the perimeter of the hexagon using l . (Hint: A regular hexagon has all its six sides in equal length)

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

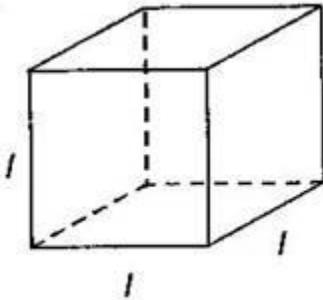


Answer

Side of hexagon = l

Therefore, Perimeter of Hexagon = $6 \times \text{side} = 6l$

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.



Answer

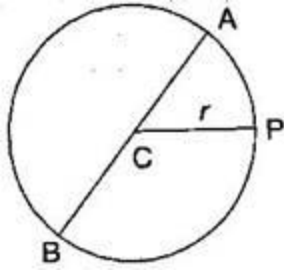
Length of one edge of cube = l

Number of edges in a cube = 12

Therefore, total length = $12 \times l = 12l$

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

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>



Answer

Since, length of diameter is double the length of radius.

Therefore, $d=2r$ (Here r is the radius of the circle)

5. To find sum of three numbers 14, 27 and 13. We can have two ways.

(a) We may first add 14 and 27 to get 41 and then add 13 to it to get the total sum 54, or

(b) We may add 27 and 13 to get 40 and then add 14 to get the sum 54. Thus

$$(14 + 27) + 13 = 14 + (27 + 13)$$

This can be done for any three numbers. This property is known as the associativity of 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 .

Answer

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

NCERT 6th Maths Chapter 11, class 6 Maths Chapter 11 solutions

Exercise 11.3

1. Make up as many expressions 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.

(Hint: Three possible expressions are $5 + (8 - 7)$, $5 - (8 - 7)$, $(5 \times 8) + 7$ make the other expressions)

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

Answer

(a) $(8 \times 5) - 7$

(b) $(8 + 5) - 7$

(c) $(8 \times 7) - 5$

(d) $(8 + 7) - 5$

(e) $5 \times (7 + 8)$

(f) $5 + (7 \times 8)$

(g) $5 + (8 - 7)$

(h) $5 - (7 + 8)$

2. Which out of the following are expressions with numbers only:

(a) $y+3y+3$

(b) $(7 \times 20) - 8z$

(c) $5(21-7)+7 \times 2$

(d) 55

(e) $3x$

(f) $5-5n$

(g) $(7 \times 20) - (5 \times 10) - 45 + p$

Answer

(c) and (d)

3. Identify the operations (addition, subtraction, division, multiplication) in forming the following expressions and tell how the expressions have been formed:

(a) $z+1, z-1, y+17, y-17$

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

(b) $17y, y/17, 5z$

(c) $2y+17, 2y-17$

(d) $7m, -7m+3, -7m-3$

Answer

(a) $z+1$ → Addition

$z-1$ → Subtraction

$y+17$ → Addition

$y-17$ → Subtraction

(b) $17y$ → Multiplication

$y/17$ → Division

$5z$ → Multiplication

(c) $2y+17$ → Multiplication and Addition

$2y-17$ → Multiplication and Subtraction

(d) $7m$ → Multiplication

$-7m+3$ → Multiplication and Addition

$-7m-3$ → Multiplication and Subtraction

4. Give expressions for the following cases:

(a) 7 added to p.

(b) 7 subtracted from p.

(c) p multiplied by 7.

(d) p divided by 7.

(e) 7 subtracted from $-m$.

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

(f) $-p$ multiplied by 5.

(g) $-p$ divided by 5.

(h) p multiplied by -5 .

Answer

(a) $p+7$

(b) $p-7$

(c) $7p$

(d) $p/7$

(e) $-m-7$

(f) $-5p$

(g) $-p/5$

(h) $-5p$

5. Give expression in the following cases:

(a) 11 added to $2m$.

(b) 11 subtracted from $2m$.

(c) 5 times y to which 3 is added.

(d) 5 times y from which 3 is subtracted.

(e) y is multiplied by -8 .

(f) y is multiplied by -8 and then 5 is added to the result.

(g) y is multiplied by 5 and result is subtracted from 16.

(h) y is multiplied by -5 and the result is added to 16.

Answer

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

(a) $2m+11$

(b) $2m-11$

(c) $5y+3$

(d) $5y-3$

(e) $-8y$

(f) $-8y+5$

(g) $16-5y$

(h) $-5y+16$

6. (a) From expressions using t and 4. Use not more than one number operation. Every expression must have t in it.

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

Answer

(a) $t+4, t-4, 4-t, 4t, t/4, 4/t$

(b) $2y+7, 2y-7, 7y+2, 7y-2$ and so on

NCERT 6th Maths Chapter 11, class 6 Maths Chapter 11 solutions

Exercise 11.4

1. Answer the following:

(a) Take Sarita's present age to be y years.

(i) What will be her age 5 years from now?

(ii) What was her age 3 years back?

(iii) Sarita's grandfather is 6 times her age. What is the age of her grandfather?

(iv) Grandmother is 2 years younger than grandfather. What is grandmother's age?

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

(v) Sarita's father's age is 5 years more than 3 times Sarita's age. What is her father's age?

(b) The length of a rectangular hall is 4 meters less than 3 times the breadth of the hall. What is the length, if the breadth is b meters?

(c) 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 terms of the height.

(d) Meena, Beena and Leena are climbing the steps to the hill top. 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 hill top is 10 less than 4 times what Meena has reached. Express the total number of steps using s .

(e) A bus travels at v km per hour. It is going from Daspur to Beespur. After the bus has travelled 5 hours. Beespur is still 20 km away. What is the distance from Daspur to Beespur? Express it using v .

Answer

(a)

(i) $y+5$

(ii) $y-3$

(iii) $6y$

(iv) $6y-2$

(v) $3y+5$

(b) Length = $3b$ and Breadth = $(3b-4)$ meters

(c) Height of the box = h cm

Length of the box = 5 times the height = $5h$ cm

Breadth of the box = 10 cm less than length = $(5h-10)$ cm

(d) Meena's position = s

Beena's position = 8 steps ahead = $s+8$

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

Leena's position = 7 steps behind = $s-7$

Total number of steps = $4s-10$

(e) Speed of the bus = v km/h

Distance travelled in 5 hours = $5v$ km

Remaining distance = 20 km

Therefore, total distance = $(5v+20)$ km

2. 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) A note book costs ₹ p . A book costs ₹ $3p$.

(b) Tony puts q marbles on the table. He has $8q$ marbles in his box.

(c) Our class has n students. The school has $20n$ students.

(d) Jaggu is z years old. His uncle is $4z$ years old and his aunt is $(4z-3)$ years old.

(e) In an arrangement of dots there are r rows. Each row contains 5 dots.

Answer

(a) A book cost 3 times the cost of a notebook.

(b) The number of marbles in box is 8 times the marble on the table.

(c) Total number of students in the school is 20 times that in our class.

(d) Jaggu's uncle's age is 4 times the age of Jaggu. Jaggu's aunt is 3 years younger than his uncle.

(e) The total number of dots is 5 times the number of rows.

3. (a) Given, Munnu's age to be x years. Can you guess what $(x-2)$ may show? (Hint: Think of Munnu's younger brother). Can you guess what $(x+4)$ may show? What $(3x+7)$ may show?

(b) 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? $y+7, y-3, y+4.1/2, y-2.1/2$

(c) Given, n students in the class like football, what may $2n$ show? What may $n/2$ show? (Hint: Think of games other than football).

Answer

(a) Munnu's age = x years

His younger brother is 2 years younger than him = $(x-2)$ years

His elder brother's age is 4 years more than his age = $(x+4)$ years

His father is 7 year's more than thrice of his age = $(3x+7)$ years

(b) Her age in past = $(y-3), (y-2.1/2)$

Her age in future = $(y+7), (y+4.1/2)$

(c) Number of students like hockey is twice the students liking football, i.e., $2n$

Number of students like tennis is half the students like football, i.e., $n/2$

NCERT 6th Maths Chapter 11, class 6 Maths Chapter 11 solutions

Exercise 11.5

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

(a) $17=x+7$

(b) $(t-7)>5$

(c) $4/2=2$

(d) $(7\times 3)-19=8$

(e) $5\times 4-8=2x$

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

(f) $x-2=0$

(g) $2m<30$

(h) $2n+1=11$

(i) $7=(11\times 5)-(12\times 4)$

(j) $7=(11\times 2)+p$

(k) $20=5y$

(l) $3q/2<5$

(m) $z+12>24$

(n) $20-(10-5)=3\times 5$

(o) $7-x=5$

Answer

(a) It is an equation of variable as both the sides are equal. The variable is x.

(b) It is not an equation as L.H.S. is greater than R.H.S.

(c) It is an equation with no variable. But it is a false equation.

(d) It is an equation with no variable. But it is a false equation.

(e) It is an equation of variable as both the sides are equal. The variable is x.

(f)) It is an equation of variable x.

(g) It is not an equation as L.H.S. is less than R.H.S.

(h) It is an equation of variable as both the sides are equal. The variable is n.

(i) It is an equation with no variable as its both sides are equal.

(j) It is an equation of variable p.

(k) It is an equation of variable y.

(l) It is not an equation as L.H.S. is less than R.H.S.

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

(m) It is not an equation as L.H.S. is greater than R.H.S.

(n) It is an equation with no variable.

(o) It is an equation of variable x.

2. Complete the entries of the third column of the table:

S. No.	Equation	Value of variable	Equation satisfied Yes/No
(a)	$10y=80$	$y=10$	
(b)	$10y=80$	$y=8$	
(c)	$10y=80$	$y=5$	
(d)	$4l=20$	$l=20$	
(e)	$4l=20$	$l=80$	
(f)	$4l=20$	$l=5$	
(g)	$b+5=9$	$b=5$	
(h)	$b+5=9$	$b=9$	
(i)	$b+5=9$	$b=4$	
(j)	$h-8=5$	$h=13$	
(k)	$h-8=5$	$h=8$	
(l)	$h-8=5$	$h=0$	
(m)	$p+3=1$	$p=3$	
(n)	$p+3=1$	$p=1$	
(o)	$p+3=1$	$p=0$	
(p)	$p+3=1$	$p=-1$	
(q)	$p+3=1$	$p=-2$	

Answer

S. No.	Equation	Value of variable	Equation satisfied Yes/No	Solution of L.H.S.
--------	----------	-------------------	---------------------------	--------------------

(a)	$10y=80$	$y=10$	No	$10 \times 10 = 100$
(b)	$10y=80$	$y=8$	Yes	$10 \times 8 = 80$
(c)	$10y=80$	$y=5$	No	$10 \times 5 = 50$
(d)	$4l=20$	$l=20$	No	$4 \times 20 = 80$
(e)	$4l=20$	$l=80$	No	$4 \times 80 = 320$
(f)	$4l=20$	$l=5$	Yes	$4 \times 5 = 20$
(g)	$b+5=9$	$b=5$	No	$5 + 5 = 10$
(h)	$b+5=9$	$b=9$	Yes	$9 + 5 = 14$
(i)	$b+5=9$	$b=4$	Yes	$4 + 5 = 9$
(j)	$h-8=5$	$h=13$	Yes	$13 - 8 = 5$
(k)	$h-8=5$	$h=8$	No	$8 - 8 = 0$
(l)	$h-8=5$	$h=0$	No	$0 - 8 = -8$
(m)	$p+3=1$	$p=3$	No	$3 + 3 = 6$
(n)	$p+3=1$	$p=1$	No	$1 + 3 = 4$
(o)	$p+3=1$	$p=0$	No	$0 + 3 = 3$
(p)	$p+3=1$	$p=-1$	No	$-1 + 3 = 2$
(q)	$p+3=1$	$p=-2$	Yes	$-2 + 3 = 1$

3. Pick out the solution from the values given in the bracket next to each equation. Show that the other values do not satisfy the equation. (a) $5m=60$ (10, 5, 12, 15)

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

(c) $p-5=5$ (0, 10, 5, -5)

(d) $q/2=7$ (7, 2, 10, 14)

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

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

Answer

(a) $5m=60$

Putting the given values in L.H.S.,

$$5 \times 10 = 50, 5 \times 5 = 25$$

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

\therefore L.H.S. \neq R.H.S.

\therefore $m=10$ is not the solution.

\therefore $m=5$ is not the solution.

$$5 \times 12 = 60, 5 \times 15 = 75$$

\therefore L.H.S. = R.H.S.

\therefore $m=12$ is a solution.

\therefore $m=15$ is not the solution.

(b) $n+12=20$

Putting the given values in L.H.S.,

$$12 + 12 = 24, 8 + 12 = 20$$

\therefore L.H.S. \neq R.H.S.

\therefore $n=12$ is not the solution.

\therefore $n=8$ is a solution.

$$20 + 12 = 32, 0 + 12 = 12$$

\therefore L.H.S. \neq R.H.S.

\therefore $n=20$ is not the solution.

\therefore $n=0$ is not the solution.

(c) $p-5=5$

Putting the given values in L.H.S.,

$$0 - 5 = -5, 10 - 5 = 5$$

\therefore L.H.S. \neq R.H.S.

\therefore $p=0$ is not the solution.

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

$\therefore p=10$ is a solution.

$$5 - 5 = 0, -5 - 5 = -10$$

\therefore L.H.S. \neq R.H.S.

$\therefore p=5$ is not the solution.

$\therefore p=-5$ is not the solution.

(d) $q/2=7$

Putting the given values in L.H.S.,

$$7/2, 2/2=1$$

\therefore L.H.S. \neq R.H.S.

$\therefore q=7$ is not the solution.

$\therefore q=2$ is not the solution.

$$10/2=5, 14/2=7$$

\therefore L.H.S. \neq R.H.S.

$\therefore q=10$ is not the solution.

$\therefore q=14$ is a solution.

(e) $r-4=0, r-4=0$

Putting the given values in L.H.S.,

$$4 - 4 = 0, -4 - 4 = -8$$

\therefore L.H.S. = R.H.S.

$\therefore r=4$ is a solution.

$\therefore r=-4$ is not the solution.

$$8 - 4 = 4, 0 - 4 = -4$$

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

\therefore L.H.S. \neq R.H.S.

$\therefore r=8$ is not the solution.

$\therefore r=0$ is not the solution.

(f) $x+4 = 2x+4 = 2$

Putting the given values in L.H.S.,

$-2 + 4 = 2, 0 + 4 = 4$

\therefore L.H.S. = R.H.S.

$\therefore x = -2$ is a solution.

$\therefore x=0$ is not the solution.

$2 + 4 = 6, 4 + 4 = 8$

\therefore L.H.S. \neq R.H.S.

$\therefore x=2$ is not the solution.

$\therefore x=4$ is not the solution.

4. (a) Complete the table and by inspection of the table find the solution to the equation

$m+10=16$.

	1	2	3	4	5	6	7	8	9	10	---	---	---
m										0			
m+10	---	---	---	---	---	---	---	---	---	---	---	---	---
16													

(b) Complete the table and by inspection of the table find the solution to the equation $5t=35$.

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

t	3	4	5	6	7	8	9	1	11	---	---	---	---	---
							0							

5t	---	---	---	---	---	---	---	---	---	---	---	---	---	---
----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

(c) Complete the table and by inspection of the table find the solution to the equation $z^3=4.z^3=4$.

z	8	9	10	11	1	1	1	1	1	---	---	---	---
					2	3	4	5	6				

z/3	2.2/3	3	3.1/3	---	---	---	---	---	---	---	---	---	---
-----	-------	---	-------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

(d) Complete the table and by inspection of the table find the solution to the equation $m-7=3.m-7=3$.

m	5	6	7	8	9	1	11	1	1	---	---
						0		2	3		

m-7	---	---	---	---	---	---	---	---	---	---	---
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Answer

(a)

m	1	2	3	4	5	6	7	8	9	1	11	1	1
										0		2	3

m+1	11	1	1	1	1	1	1	1	1	2	2	2	2
0		2	3	4	5	6	7	8	9	0	1	2	3

∴ m=6 is the solution.

∴ At m=6, m+10=16

(b)

$$t \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8 \quad 9 \quad 1 \quad 11 \quad 1 \quad 1 \quad 1 \quad 1 \quad 1$$

$$0 \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad 2 \quad 3 \quad 4 \quad 5 \quad 6$$

$$5t \quad 1 \quad 2 \quad 2 \quad 3 \quad 3 \quad 4 \quad 4 \quad 5 \quad 5 \quad 6 \quad 6 \quad 7 \quad 7 \quad 8$$

$$5 \quad 0 \quad 5 \quad 0 \quad 5 \quad 0 \quad 5 \quad 0 \quad 5 \quad 0 \quad 5 \quad 0 \quad 5 \quad 0 \quad 5 \quad 0$$

$\therefore t=7$ is the solution.

\therefore At $t=7, 5t=35$

(c)

$$z \quad 8 \quad 9 \quad 10 \quad 11 \quad 1 \quad 13 \quad 14 \quad 1 \quad 16 \quad 17 \quad 1 \quad 19 \quad 20$$

$$2 \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad 5 \quad \quad \quad \quad \quad \quad \quad \quad \quad 8$$

$$z/3 \quad 2.2/3 \quad 3 \quad 3.1/3 \quad 3.2/3 \quad 4 \quad 4.1/3 \quad 4.2/3 \quad 5 \quad 5.1/3 \quad 5.2/3 \quad 6 \quad 6.1/3 \quad 6.2/3$$

$\therefore z=12$ is the solution.

\therefore At $z=12, z/3=4$

(d)

$$m \quad 5 \quad 6 \quad 7 \quad 8 \quad 9 \quad 1 \quad 11 \quad 1 \quad 1 \quad 1 \quad 1$$

$$0 \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad 2 \quad 3 \quad 4 \quad 5$$

$$m-7 \quad -2 \quad -1 \quad 0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8$$

$\therefore m=10$ is the solution.

\therefore At $m=10, m-7=3$

NCERT 6th Maths Chapter 11, class 6 Maths Chapter 11 solutions

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>



Chapterwise NCERT Solutions for Class 6 Maths :

- Chapter 1 Knowing Our Numbers
- Chapter 2 Whole Numbers
- Chapter 3 Playing with Numbers
- Chapter 4 Basic Geometrical Ideas
- Chapter 5 Understanding Elementary Shapes
- Chapter 6 Integers
- Chapter 7 Fractions
- Chapter 8 Decimals
- Chapter 9 Data Handling
- Chapter 10 Mensuration
- Chapter 11 Algebra
- Chapter 12 Ratio and Proportion
- Chapter 13 Symmetry
- Chapter 14 Practical Geometry

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>

About NCERT

The National Council of Educational Research and Training is an autonomous organization of the Government of India which was established in 1961 as a literary, scientific, and charitable Society under the Societies Registration Act. The major objectives of NCERT and its constituent units are to: undertake, promote and coordinate research in areas related to school education; prepare and publish model textbooks, supplementary material, newsletters, journals and develop educational kits, multimedia digital materials, etc. Organise pre-service and in-service training of teachers; develop and disseminate innovative educational techniques and practices; collaborate and network with state educational departments, universities, NGOs and other educational institutions; act as a clearing house for ideas and information in matters related to school education; and act as a nodal agency for achieving the goals of Universalisation of Elementary Education. In addition to research, development, training, extension, publication and dissemination activities, NCERT is an implementation agency for bilateral cultural exchange programmes with other countries in the field of school education. Its headquarters are located at Sri Aurobindo Marg in New Delhi. [Visit the Official NCERT website](#) to learn more.

<https://www.indcareer.com/schools/ncert-solutions-for-6th-class-maths-chapter-11-algebra/>