Worksheet-1 for knowing our numbers

Instructions:- Revise your chapter and solve all the questions

Question 1

Solve the following:
(a) $5(5-3)$
(b) $20(40-32)$
(c) $(11+20)(31+30)$
(d) $(1+6)+10$
(e) $2 \times (1+3)(10+12) \times (8+6)$

Question 2

Estimate the following products (by general rule):
(a) 271×362 (b) 5271×3411
(c) 32×488 (d) 451×200

Question 3

Estimate the following (by rounding off to nearest hundreds):
(a) 6,941   (b) 6,320
(c) 416   (d) 126
(e) 109   (f) 202
(g) 146   (h) 7,684
(i) 8,311   (j) 986

Question 4

Estimate the following (by rounding off to nearest thousands):
(a) 2,456   (b) 1,810
(c) 25,564   (d) 7,210
(e) 6,499   (f) 62,535

Question 5

X and Y worked as salesperson at a bookstore. They sold 6283 story books in all. X sold 3324 story books. How many story books were sold by Y?

Question 6

A factory makes 132 machines per day. How many machines will the factory make in March?

Question 7

The population of a town was 9,75,689. In the first year it increased by 4563 and in the second year it decreased by 8976. What was the population of the town at the end of second year?

Question 8

If a table costs Rs 450 and a chair costs Rs 225, find the total amount needed to buy 30 table and 50 chairs.

Question 9

A Game zone was held for four days in a school. The number of tickets sold at the counter on the first, second, third and final day was respectively 1091, 1802, 1050 and 1751. Find the total number of tickets sold on?

Question 10

a) How many thousands make a million?

b) How many lakhs make a crore?

Worksheet-2 for knowing our numbers

Instructions:- Revise your chapter and solve all the questions

Question 1
Which is greatest?
a. 231
b. 643
c. 757
d. 456

Question 2
Which is smallest?
a. 4567
b. 1456
c. 4345
d. 1234

Question 3
What is 1000 – 1?
a. 9
b. 99
c. 999
d. 9999

Question 4
13456 _____ 98945
a. >
b. <
c. =
d. none of these

Question 5
5671 _____ 6754
a. <
b. >
c. =
d. none of these

Question 6
What is the place value of 5 in '1562'?
a. 50
b. 5
c. 500
d. 5000

Question 7
What is the sum of 567 and 843?
a. 567
b. 843
c. 1410
d. 1500

Question 8
The greatest four digit number using 3, 0, 6, 1 without repetition is
a. 6301
b. 6311
c. 6103
d. 6310

Question 9
1 crore = _____ million
a. 10
b. 100
c. 1000
d. 1

Question 10
What is the product of 784 and 300?
a. 235200
b. 253200
c. 230000
d. 210000

PhysicsCatalyst

Worksheet-1 for Whole numbers

Instructions:- Revise your chapter and solve all the questions

Question 1

Write the smallest natural and smallest whole number.

Question 2

Match the column

Closure Property	If a and b are any two whole numbers, then a+b = b+a and a×b = b×a.
Commutative property	If a and b are any two whole numbers, then a+b, a×b are also whole numbers.
Associative property	If a, b and c are any two whole numbers, then a(b+c) = a×b + a×c.
Distributive property	If a, b and c are any two whole numbers, then (a+b)+c = a+(b+c) and (a×b)×c = a×(b×c).
Additive Identity	If a is any whole number, then a + 0 = a = 0 + a.
Multiplicative Identity	If a is any whole number, then a × 0 = 0 = 0 × a.
Multiplication by zero	If a is any whole number, then a × 1 = a = 1 × a
Division by zero	If a is any whole number, then a ÷ 0 is not defined

Question -3

Match the column

191 +13 =13 +191	Associative Property of Multiplication.
90 +0 =00	Distributive Property of Multiplication over Addition.
(78 + 1) + 11 = 78 + (1 +11)	Commutative Property of Multiplication
(121 x 4) x 80 = 121 x (4 x 80)	Distributive Property of Multiplication over Subtraction.
12 x (10 + 85) = 12 x 10 + 12 x 85	Associative Property of Addition
71x (11 − 3) = 71 x 11 - 71 x 3	Additive Identity
10 x 45 = 45 x 10	Commutative Property of Addition.

Worksheet-2 for whole numbers

Instructions:- Revise your chapter and solve all the questions

Question 1

Fill in the blanks

(a) _____ × 13 = 13 × 18

(b) Whole numbers are closed under _____ and _____ operation.

(c) Division by _____ is not defined.

Question 2

How many whole numbers are there between 12 and 86

Question 3

Find the product using Distributive property

(a) 168 × 102

(b) 625 × 279 - 625 ×79

Question 4

Find the successor and predecessor of each of the following whole numbers:

(i) 999   (ii) 21999

(iii) 4001   (iv) 500012

(v) 11111

Question 5

Seema got 99 marks in Math, 69 marks in English, and 91 in Science. Another student Rita got 92 marks in Math, 33 in English and 84 in Science. What are their total marks?

Question 6

If a and b are two whole numbers then ab, a+b, are also whole numbers, Prove by taking a=5, b=6.

Question 7

Represent the following whole numbers on the number line

4, 0, 6, 8, 10

Question 8

Arrange the following whole numbers in ascending order

40, 38, 45, 65, 17

Question 9

What is the largest 5 digit whole number and smallest 4 digit whole number.

Question 10

Frame the largest and the smallest whole number from the following digits

9, 0, 1, 7, 3

Worksheet-1 for fractions

Instructions:- Revise your chapter and solve all the questions

Question 1

Find the value of the Missing numbers

a) $2/3 = ---/ 27$

b) $2/.... = 4/12$

c) $1/.... = 5/10$

d) $7/8 = 35/......$

Question 2

X had 20 chocolates, Y had 50 chocolates and Z had 80 chocolates After 15 days, X eaten up 10 chocolates, Y eaten up 25 chocolates and Z used up 40 chocolates. What fraction did each eat up? Check if each has eaten up an equal fraction of her/his chocolates?

Question 3

The following fractions represent just three different numbers. Separate them into three groups of equivalent fractions, by changing each one to its simplest form.

(a) $1/6$

(b) $4/20$

(c) $3/9$

(d) $9/27$

(e) $20/120$

(f) $11/55$

(g) $14/70$

Question 4

Find the following

a) $1/9 + 2/9$

b) $21/22 - 10/22$

c) $1/36 + 17/36$

d) $18/77 - 11/77$

e) $1 - 2/3$

f) $1 - 1/3$

h) $2/3 + 1/3$

Question 5

Find the following

a) $1/6 + 2/7$

b) $1/2 - 1/3$

c) $1/5 + 17/15$

d) $18/11 - 1/2$

e) $1/5 + 2/3$

f) $1/5 - 1/6$

g) $1/2 + 1/3 + ¼ + 1/5$

Worksheet-2 for Fractions

Instructions:- Revise your chapter and solve all the questions

Question 1

Reduce the fraction to simplest form

a) 20/25

b) 11/121

c) 48/72

d) 125/625

e) 32/256

f) 63/84

g) 19/ 38

Question 2

Sonu ate 1/3 part of an apple and the remaining apple was eaten by her brother Monu. How much part of the apple did Monu eat? Who had the larger share? By how much?

Question 3

X finished coloring a picture in 7/12 hour. Y finished coloring the same picture in ¾ hour. Who worked longer? By what fraction was it longer?

Question 4

Find the following

a) 1/9 + 2/9 + 3/9

b) 21/11 -10/12

c) 1/2 + 17/3

d) 21/77 – 11/77

e) 2/4 – 1/3

f) 1 +1/3+ 1/2

Question 5

Find the following

a) Equivalent fraction of 2/3 with denominator 36

b) Equivalent fraction of 2/7 with denominator 14

c) Equivalent fraction of 1/8 with Numerator 5

d) Arrange in ascending order 1/3 , 6/9, 5/3, 11/3, 1

e) Arrange in ascending order 1/8 , 6/9, 1/3, 2/4, 1

f) Arrange in descending order 1/2 , 1/3, 1/4, 1/5, 1

g) Arrange in descending order 1/2 , 1/4, 1/8, 1/16, 1

Worksheet-1 for Algebra

Instructions:- Revise your chapter and solve all the questions

Question 1

Give expressions for the following cases.

(a) 71 added to m

(b) 99 subtracted from m

(c) n multiplied by 8

(d) p divided by 10

(e) 11 subtracted from - x

(f) - y multiplied by 1

(g) - x divided by 11

(h) z multiplied by – 5

Question 2

Which out of the following are expressions with both variable and numbers only?

(a) p -9

(b) $(11 × 20) – 8x$

(c) 5 (21 - 7) + 7 × 2+p

(d) 1

(e) 11x-1

(f) 5 +4+3+2+1

(g) (7 × 8) - (8 × 7) - 45 +11x

(i) 2 times z from which 11 is subtracted

Question 3

Get the algebraic expressions in the following cases using variables, constants and arithmetic operations.

(i) Subtraction of z from y.

(ii) One-half of the sum of numbers a and b.

(iii) The number y multiplied by itself.

(iv) One-eighth of the product of numbers x and y.

(v) Numbers p , q and r both squared and added.

(vi) Number 5 added to three times the product of number m and n.

(vii) Product of numbers y and z subtracted from 10.

(viii) Sum of numbers x and y subtracted from their product.

Worksheet-2 for Algebra

Instructions:- Revise your chapter and solve all the questions

Question 1

(a) Complete the table and by inspection of the table, find the solution to the equation $x - 11 = 6$

x	11	12	13	14	15	16	17	18	19	20	...
x - 11	-	-	-	-	-	-	-	-	-	-	-

(b) Complete the table and by inspection of the table, find the solution to the equation $2z = 44$

z	14	15	16	17	18	19	20	21	22	...
2z	-	-	-	-	-	-	-	-	-	-

(c) Complete the table and find the solution of the equation $z/5 = 6$ using the table.

z	5	10	15	20	25	30	35	40	45	...
z/5	1	2	3	-	-	-	-	-	-	-

Question 2

Complete the entries in the third column of the table.

S. No.	Equation	Value of variable	Equation satisfied Yes/No
(a)	y/11 = 4	$y = 44$	-
(b)	y/11 = 4	$y = 33$	-
(c)	y/11 = 4	$y = 22$	-
(d)	$4l+2 = 22$	$l = 20$	-
(e)	$4l +2= 22$	$l = 80$	-
(f)	$4l +2= 22$	$l = 5$	-
(g)	$n + 20 = 29$	$b = 5$	-
(h)	$n + 20 = 29$	$b = 9$	-
(i)	$n + 20 = 29$	$b = 4$	-
(j)	$x - 8 = 11$	$x = 13$	-
(k)	$x - 8 = 11$	$X = 19$	-
(l)	$x - 8 = 11$	$x = 0$	-
(m)	$q + 3 = 0$	$p = -3$	-
(n)	$q + 3 = 0$	$p = 1$	-
(o)	$q + 3 = 0$	$p = 0$	-
(p)	$q + 3 = 0$	$P = -1$	-
(q)	$q + 3 = 0$	$P = -2$	-

Worksheet-1 for Integers

Instructions:- Revise your chapter and solve all the questions

Question 1
Using the number line write the integer which is:

(a) 1 more than 2

(b) 4 more than -3

(c) 3 less than 4

(d) 1 less than -1

Question 2 For the following statements, write True (T) or False (F). If the statement is false, correct the statement.

(a)- 4 is to the left of - 10 on a number line.

(b) -100 > -50

(c) -1 lies on the left of 1

(d) - 11 is greater than - 25.

(e) 11+(-16) =26

(f) (-7) + (-1) = -8

(g) -15 is smaller than -25

Question 3
Find these sum using number line

(a) 1 + (- 4)

(b) 11 + (- 10)

(c) (3) + (- 3)

(d) (- 6) + (-5)

(e) (- 1) + (- 1) + (- 3)

(f) (- 4) + 3 + (- 4)

Question 4
Find these sums without using number line

(a) 2 + (- 3)

(b) 1 + (- 10)

(c) (4) + (- 4)

(d) (- 11) + (-5)

(e) (- 2) + (- 1) + (- 3)

(f) (- 1) + 3 + (- 4)

Question 5
Fill in the blanks with >, < or = sign.

(a) (- 1) + (- 3) ___ (- 1) - (- 3)

(b) (- 25) + (- 10) ____(- 25) - (- 11)

(c) 256 - (- 11) ____ 260 + (- 4)

(d) (- 25) +(- 42) ____(- 42) -(-25)

Worksheet-1 for Decimals

Instructions:- Revise your chapter and solve all the questions

Question 1

Find the sum in each of the following:

(a) 1.07 + 2.5 + 45.08

(b) 25 + 1.63 + 13.4

(c) 21.076 + 22.551 + 22.004

(d) 21.95 + 10.005 + 1.7

(e) 1.75 + 11.425 + 2.876

(f) 1006.69 + 125.2 + 385

Question 2

Find the value of:

(a) 19.756 − 6.18

(b) 11.05 − 5.27

(c) 21.5 − 20.79

(d) 114.6 − 91.847

Question 3

Arnav bought vegetables weighing 11 kg. Out of this, 3 kg 500 g is Cabbage, 2 kg 75 g is tomatoes and the rest is onion. What is the weight of the onion?

Question 4

Write the following decimals in the place value table.

(a) 1.29

(b) 20.08

(c) 119.60

(d) 1566.32

(e) 100.812

Question 5

Write each of the following decimals in words.

(a) 01.03

(b) 1.24

(c) 101.56

(d) 11.07

(e) 0.132

(f) 65.008

Worksheet-1 for Mensuration

Instructions:- Revise your chapter and solve all the questions

Question 1
Find the perimeter of each of the following shapes:
(a) A triangle of sides 12 cm, 5 cm and 13 cm.
(b) An equilateral triangle of side 8 cm.
(c) An isosceles triangle with equal sides 4 cm each and third side 3 cm.
d) An square of side 10 cm

Question 2
Solve the following
(a) Two sides of a triangle are 12 cm and 14 cm. The perimeter of the triangle is 36 cm. What is its third side?
(b) The perimeter of square is 40 cm, what is the side length?
(c) An equilateral triangle of perimeter 90 cm, what is the side length?
(d) The length of the rectangle is 10 cm and perimeter is 30 cm, what is the other side

Question 3
Find the perimeter of a rectangle whose length and breadth are 150 cm and 1 m respectively.

Question 4
Sachin takes 10 rounds of a rectangular park, 50 m long and 20 m wide. Find the total distance covered by him.

Question 5
Find the distance travelled by Naina if she takes three rounds of a square park of side 60 m.

Question 6
Find the perimeter of a regular pentagon with each side measuring 6 cm.

Question 7
The lid of a rectangular box of sides 40 cm by 10 m is to be sealed all round with tape. What is the length of the tape required?

Question 8
Find the areas of the rectangles whose sides are:
(a) 7 cm and 4 cm
(b) 2 m and 21 m
(c) 11 m and 1 m
(d) 2 m and 10 cm

Question 9
Find the areas of the squares whose sides are:
(a) 11 cm   (b) 25 cm   (c) 12 m

Question 10
Jatin wants to cover the floor of a room 3 m wide and 4 m long by squared tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room.

Question 11
Find the area in square meter of a piece of cloth 1m 25 cm wide and 2 m long.

Question 12
A room is 4 m long and 3 m 50 cm wide. How many square meters of carpet is needed to cover the floor of the room.

Question 13
The area of a rectangular garden 50 m long is 300 sq m. Find the width of the garden.

Answers to the selected worksheets

Look for the specific worksheet to get the answers.

Worksheet-1 for knowing our numbers

Question 1
(a)10
(b)160
(c)1891
(d)17
(e)2464

Question 2
(a)60000
(b)15000000
(c)12000
(d)8000

Question 3
(a) 6900   (b)6300
(c)400   (d)100
(e)100   (f)200
(g)100   (h)7700
(i)8300   (j)1000

Question 4
2959

Question 5
4092

Question 6
962150

Question 8
686250

Question 9
5694

Worksheet-1 for whole numbers

Question 1

The smallest natural number is 1 . The smallest whole number is 0.

Question 2

Closure Property : If a and b are any two whole numbers, then a+b, axb are also whole numbers.

Commutative property : If a and b are any two whole numbers, then a+b = b+a and a×b = b×a.

Associative property : If a, b and c are any two whole numbers, then (a+b)+c = a+(b+c) and (a×b)×c = a×(b×c).

Distributive property : If a, b and c are any two whole numbers, then a(b+c) = a×b + a×c.

Additive Identity : If a is any whole number, then a + 0 = a = 0 + a.

Multiplicative Identity : If a is any whole number, then a × 1 = a = 1 × a

Multiplication by zero   : If a is any whole number, then a × 0 = 0 = 0 × a.

Division by zero ; If a is any whole number, then a ÷ 0 is not defined

Question 3

191 +13 =13 +191	Commutative Property of Addition
90 +0 =00	Additive Identity
(78 + 1) + 11 = 78 + (1 +11)	Associative Property of Addition
(121 x 4) x 80 = 121 x (4 x 80)	Associative Property of Multiplication.
12 x (10 + 85) = 12 x 10 + 12 x 85	Distributive Property of Multiplication over Addi-
71x (11 − 3) = 71 x 11 - 71 x 3	Distributive Property of Multiplication over Subtrac-
10 x 45 = 45 x 10	Commutative Property of Multiplication

Answers to the selected worksheets

Look for the specific worksheet to get the answers.

Worksheet-2 for Whole numbers

Question 1

(a) 18 (b) Addition and Multiplication.

(c) 0.

Question 2　　　75

Question 3

(a) 168 × 102 =168× (100+2) = 16800 + 336=17136

(b) 625 × 279 - 625 ×79 =625× (279-79) = 625×200=125000

Question 5 Marks obtained by Seema :

Math = 99   English = 69   Science = 91

Total marks obtained by Seema =99 + 69 + 91 = 259

Marks obtained by Rita :

Math = 92   English = 32   Science = 84

Total marks obtained by John =92 + 33 + 84 = 209

Question 8

17, 38, 40, 45, 65

Question 9

Largest :- 99999

Smallest :- 1000

Question 10

Largest :- 97310

Smallest:- 1379

Worksheet-1 for fractions

Question 1

a) 18
b) 6
c) 2
d) 40

Question 2

½, ½, ½

Question 3

1/6	a, e, h
1/5	B, f, g, j
1/3	C, d, i

Question 4

a) 1/3
b) ½
c) ½
d) 1/11
e) 1/3
f) 2/3
g) 1

Question 5

a) 19/42
b) 1/6
c) 4/3
d) 25/22
e) 13/15
f) 1/30
g) 77/60

Answers to the selected worksheets

Look for the specific worksheet to get the answers.

Worksheet-2 for fractions

Question 1
a) 4/5
b) 1/11
c) 2/3
d) 1/5
e) 1/8
f) ¾
g) 1/2

Question 2
Monu ate 2/3 part
Monu ate the larger part and he ate 1/3 more than Sonu

Question 3
Y took longer and by 1/6 hour

Question
a) 2/3
b) 71/61
c) 37/6
d) 10/77
e) 1/6
f) 7/10

Question 5
a) 24/36
b) 4/14
c) 5/40
d) 1/3 < 6/9 < 1 < 5/3 < 11/3

e) 1/8 < 1/3 < 2/4 < 6/9 < 1

f) 1 > ½ > 1/3 > ¼ > 1/5

g) 1 > ½ > ¼ > 1/8 > 1/16

Worksheet-1 for Algebra

Question 1
(a) $m+71$
(b) $m-99$
(c) $8n$
(d) $p/10$
(e) $-x-11$
(f) $-y$
(g) $-x/11$
9h) $-5z$
(i) $2z-11$

Question 2
Both number and variable expression are a, b, c, e, g

Question 3
(i) $y-z$
(ii) $(1/2)(a+b)$
(iii) y^2
(iv) $xy/8$
(v) $p^2 + q^2 + r^2$
(vi) $3mn+5$
(vii) $10-yz$
(viii) $xy -(x+y)$

Answers to the selected worksheets

Look for the specific worksheet to get the answers.

Worksheet-1 for Integers

Question 3

(a) False

(b) False

(c) True

(d) True

(e) false

(f) True

(g) False

Question 4
(a) -3
(b) 1
(c) 0
(d) -11
(e) -5
(f) -5

Question 5
(a) -1
(b) -9
(c) 0
(d) -16
(e) -5
(f) -2

Question 6
(a) <
(b) <
(c) >
(d) <

Worksheet-1 for Mensuration

Question 1
(a) 30 cm
(b) 24 cm
(c) 11cm
(d) 40 cm
(e) 42 cm
(f) 39 cm
(g) 48 cm
(h) 25 cm

Question 2
(a) 10 cm
(b) 10 cm
(c) 30 cm
(d) 5 cm

Question 3 302 m

Question 4 1400m

Question 5 720 m

Question 6 30 cm

Question 7 100 m