CLASS : VIII (CBSE) **WORKSHEET-1** **SUBJECT : MATHEMATICS**

NAME OF THE STUDENT: **SEC:** **ROLL NO.** **DATE:**

Chapter : Compound Interest

1. A man invests Rs 10000 for 2 years at the rate of 10% per annum in a bank. let us find the difference between the simple interest and the compound interest earned by him.
2. Calculate the compound interest on Rs 10,500 for 2 years at 8% per annum.
3. Calculate compound interest and amount by using the formula if interest is compounded annually if principal = Rs 4000 Time = 3 years rate of interest 8% per annum.
4. Find the amount and compound interest on Rs 3000 at 10% per annum for 2 (1/3) years compounded annually.
5. At what rate percent per annum compound interest will Rs 3375 amount to Rs 4096 in 3 years.
6. Find the compound interest at the rate of 6% per annum for 3 years on the principal which in 3 years at the rate of 5% per annum gives Rs 1800 as simple interest .

Fill in the blanks

1. Amount of money borrowed or lent is called _____
2. Simple interest = _____
3. _____ Refers to a negative change in the value decreases with the time.
4. Compound interest formula_____
5. The increase of the amount calculated on the original money at given rate of interest for any given time is called _____

CLASS : VIII (CBSE) **WORKSHEET-2** **SUBJECT : MATHEMATICS**

NAME OF THE STUDENT: **SEC:** **ROLL NO.** **DATE:**

Chapter: Direct and Indirect Variation

1. What is Ratio
2. If 15 workers can build a wall in 48 hours how many workers will required to do the same work in 30 hours
3. A Machine in a Soft drink factory fills 840 bottles in Six hours how many bottles will it fill in five hours?
4. A Map is drawn to a scale 1:120000 the distance between the two cities A and B on the map is 5cm what is the Actual distance between the two cities?
5. If 64 People can do same work in 48 Days how many people will do it in 16 days?
6. A File of 6 identical books weight 600g how many book weight 2(1/2) kg ?
8. Two quantities of same kind when compared by means of division from a ratio.

CLASS : VIII (CBSE) **WORKSHEET-3** **SUBJECT : MATHEMATICS**

NAME OF THE STUDENT: **SEC:** **ROLL NO.** **DATE:**

Chapter Factorization:

1. An _____ can be factorize by taking at common factors from all of the terms.
2. Factorize $X^2+Xy+8X+8y$.
3. Find the factors of $3x^2+9X+6$.
4. Divide $24(X^2yz+Xy^2z+Xyz^2)$ by 8 xyz.
6. Factorize the expressions and divide $(y^2+7y+10) \div (y+5)$
7. Factorize: (a) $16- x^2$ (b) $9x^2-625$
8. Factorize the following expressions

   (a) $8x^2-14x-9$ (b) $(2a+2b)^2+8(2a+3b)+15$
9. $(a+b)^2$ = _____
10. $(a-b)^2$ = _____
11. a^2-b^2 = _____

CLASS : VIII (CBSE) **WORKSHEET-4** **SUBJECT : MATHEMATICS**

NAME OF THE STUDENT: **SEC:** **ROLL NO.** **DATE:**

Chapter : Algebraic expressions and identities.

1. A Mathematical expression consisting of variable and constants connected by four basic operations (+ - X ÷) is called an _____
2. Add $(4x^2+3x-3)$ and (x^2-4x+2)
3. Substrat $3x^2-2y^2+5x-2$ from $5x^2-4xy+8y^2+5x-3y$
4. Simplify $5x^2yz - (2xyz^2+3x^2yz) - 2xyz^2$
5. Simplify the expressions and evaluate them as directed

   (a) $x(x-3) + 2$ for $x=1$ (b)$3y(2y-7)-3(y-4)-63$ for $y=-2$.
6. Find the Product$(5-2x)(3+x)$.
7. Show that $(3x+7)^2 -8yx^2 =(3x-7)^2$
8. Using identities evaluate 102^2
9. Using $(x+a)(x+b) = x^2+(a+b)x+ab$ find 103 x 104
10. Using $a^2-b^2 =(a+b)(a-b)$ find $51^2 - 49^2$
11. Expressions are formed from _____ and _____
12.)Expressions that contains exactly one ,two and three terms are called _____, _____and _____.

CLASS : VIII (CBSE) **WORKSHEET-5** **SUBJECT : MATHEMATICS**

NAME OF THE STUDENT: **SEC:** **ROLL NO.** **DATE:**

Chapter : Mensuration

1. Find the area of a sharbus whose diagonals are of lenghts 10cm and 8.2cm.
2. A Rectangular box of length 40cm,breadth 25cm and heights 20cm is to be made of tin what is the area of the tin sheet required to make this closed box.
3. The total surface area of a cube is $9cm^2$ what is the length of each edge of the cube?
4. A pillar is in the shape of a cylinder has radius 21cm and height 3m find the curved surface area.
5. Dimension of a cuboid are 9cm,6cmand 8cm find its volume.
6. A rectangular piece of paper 11cmx4cm is folded without overlapping to make a cylinder of height 4cm find the volume of the cylinder.
8. A cutaider box has dimensions 5mx1.5m how many smaller boxes each of dimensions 20cmx 5m x 10cm can fit in the bigger box.
9. Find the volume of a cube whose edge is 6cm
10. A Rectangular paper of width 14cm is rolled along its widthand a cylinder of radius.
11. volume of a cube is same as that of a cuboid of dimensions 16mx8mx4m find the edge of the cube.

CLASS : VIII (CBSE) **WORKSHEET-6** **SUBJECT : MATHEMATICS**

NAME OF THE STUDENT: **SEC:** **ROLL NO.** **DATE:**

Chapter :Playing with numbers

1. Check the divisibility of 6756891207 by

   (a)2 (b) 7 (c) 9 (d) 6 (e) 8 (f) 4

2. Without actual division find the remainder when 1459837 is divided by 3.

3. Replace A,B,C,D, by suitable numerals

   The following addition

   (a) 3 2 A
   \+ 2 A 1
   ……..

   (b) 6 A B 5
   \+ D 5 8 C
   ……....

   (c) A
   \+ A
   \+ A
   …….

4. Complete the following grid by performing the operations as specified

22	20	18	
26			
30			

II. Very short answer questions

5. A by cycle costing Rs 1280 is sold for Rs 1320 find the profit o loss percent .

6. What is direct variation

7. Find the value of $(-4)^5 \div (-4)^8$

III. Short answer questions

8. Simplify $\dfrac{25 \times f^4}{5^{-3} \times 10 \times E^8} (+\neq 0)$

9. A Machine in a Soft drink factory fills 840 bottles in Six hours how many bottles will it fill in five hours?

10. Find the amount of Rs 8000 for 3 years compound annually at 10% per annum.

11. Check the divisibility of 6756891207 by

    (a) 2 (b) 3 (c) 9

IV. Long answer questions

12. Riya takes 125 minutes in walking a distance of 100 meters what distance would she covers in 315 minutes if the speed remains same.

13. Trish Took a loan of Rs 80000 from a finance company if the rate of interest is 10% per annum find the amount she would be paying after 1 (1/2) years if the interest in compounded half yearly.

14. Find the amount and compound interest on Rs 5000 for 2 years at 10% p.a. interest being payable yearly.

15. Find in so that $(-3)^{m+1} \times (-3)^{-5} = (-3)^{7}$