

DELHI PUBLIC SCHOOL, JAMMU
ASSIGNMENT-I
SESSION:2018-19

Class- VIII

Subject: Maths

SECTION A

1. Factorise

- (i) $12 a^2 b^2 - 24 a^2 b^2 c^2 + 8 b$
- (ii) $a(x-y) + b(y-x) + c(x-y)$
- (iii) $5(x-y)^2 - 10(y-x)$
- (iv) $ab(p-1) - ac(p-1)$
- (v) $(a-b)(2b+3) + (a-b)(2b-3)$

2. Factorise

- (i) $ab-3b + 3c - ac$
- (ii) $(x+2y)^2 - 4x - 8y$
- (iii) $25y^2 - x^2$

3. Express the following percentage as fraction a ratio and a decimal.

- (i) 42%
- (ii) 65%

4. Convert a ratio into percentage

- (i) 2 : 5
- (ii) 3 : 5

5. Find

- (i) 24% of 650
- (ii) 75% of 400

6. Solve

- (i) $2x - 5 = 3x + 5$
- (ii) $7 - \frac{x}{3} = 4 - x$
- (iii) $3t + \frac{7}{5} = \frac{2}{5} + 5t$
- (iv) $2m - \frac{3}{5} = m + \frac{4}{5}$

SECTION B

1. Solve

- (i) $\frac{4x-3}{2x+1} = \frac{5}{7}$
- (ii) $\frac{5x-7}{x+1} = 2$
- (iii) $\frac{2}{3x} - \frac{1}{12} = \frac{3}{2x}$

2. Two no's are in ratio 4:5 if 6 is added to the first number and 8 to the other number, the ratio becomes 11 : 14, find the numbers.
3. The sum of three consecutive multiples of 3 is 333. Find the multiples.
4. The sum of two numbers is 43. Their difference is 13. Find the numbers.
5. Three consecutive integers add upto 54. What are the integers?
6. Suresh got 70% marks in the examination if he obtained 525 marks. Find the maximum marks.
7. Ashish's monthly income is Rs. 9600. His monthly expenditure is 60%. What is his saving per month.
8. By selling a cricket bat for Rs 570, a shopkeeper loses 5%. For how much should he sell the cricket bat to gain 6%?
9. Find the product
 - (i) $(y + 4)(y - 4)$
 - (ii) $(3x + 2z)(3y - 2z)$
10. Multiply using identity
 - (i) $(2a - 3b)^2$
 - (ii) $(9z + 2)(9z - 2)$
 - (iii) $(4y + 3z)^2$

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Subject: Maths

1. I purchased a hair dryer for Rs. 5400 including 8% VAT. Find the price before VAT was added.
2. Divide:
 - (i) $x^2 + 5x + 6$ by $x + 3$
 - (ii) $3x^2 - 4x - 4$ by $3x + 2$
 - (iii) $2x^3 + 7x^2 - 9$ by $x+3$
3. Solve and Check:
 - (i) $2x + 3 (x = 2) + 4 (x - 4) = -37$
 - (ii) $\frac{3x+5}{5} = \frac{x-2}{3} = \frac{5x-7}{6}$
 - (iii) $6(3m - 1) + 3 (2m + 3) = 1 - 7m$
4. Find the compound interest on Rs 18000 at 10% per annum for 3 years.
5. I had Rs 924 left, after spending 65% of my money. How much I had in the beginning?
6. A ceiling fan was purchased for Rs. 650 and Rs. 250 were spent on its repair. Find the selling price if it was sold at a profit of 10%.
7. Solve: $2m - \frac{3}{5} = m + \frac{4}{5}$
8. $\frac{3x+5}{3-2x} = \frac{5}{3}$

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Class- VIII

Subject: Maths

1. A man bought two computers for Rs. 45000. He sold one at a loss of 5% and the other at a profit of 5%. If the selling price of each set is same, find the cost price of each set.
2. I purchased a washing machine having the marked price of Rs 13000. The dealer offered a discount of 10% and VAT was charged at the rate of 10%. How much amount I had to pay to the dealer.
3. Meena deposited Rs. 8000 in Post Office which pays her 12% interest compounded quarterly. What is the amount which she receives after nine months?
4. The population of a town is increasing at the rate of 10% per annum. What will be the population of the town at this rate after two years, if the present population is 42000?
5. Factorise: $9x^2 - 30x + 25 - 4y^2$
6. Divide $x^2 + 5x - 24$ by $(x + 8)$.
7. Factorise: $x^8 - y^8$
8. Factorise: $a^4 - (2b + c)^4$
9. The numerator of a given fraction is 4 less than its denominator. If 3 is subtracted from the numerator and 5 is added to the denominator, the fraction becomes $\frac{1}{4}$. What is the given fraction?
10. The digit at the tens place of a two digit number is three times the digit at the ones place. If the sum of the number and the number formed by severing its digits is 88, find the number.
11. Solve and check your answer.
$$\frac{m}{2} + 6 = m - 8$$
12. Solve : $\frac{7x+4}{x+2} = \frac{-4}{3}$