DELHI PUBLIC SCHOOL, JAMMU
SESSION:2019-20
QUESTION BANK

Class:- VIII **Subject:- Mathematics**

Topic:
1. Factorizations
2. Direct and inverse variations
3. Comparing quantities

A) Multiple choice question: (1 mark each)

Q1. 10 meters of cloth cost ` 1000. What will 4 meters cost?

a) ` 400 b) ` 800 c) ` 200 d) `100

Q2. If 8 men can do a piece of work in 20 days, in how many days could 20 men do the same work?

a) 6 days b) 8 days c) 4 days d) 10 days

Q3. If x = Ky and when y = 4, x = 8 then k =

a) 1 b) 2 c) 3 d) 4

Q4. The common factor 12y and 30 is

a) 6 b) 12 c) 30 d) 6y

Q5. The factorization of $4y^2 - 12y + 9$ is

a) $(2y + 3)^2$ b) $(2y - 3)^2$ c) $(3y + 2)^2$ d) $(3y - 2)^2$

Q6. The value of $(0.68)^2 - (0.32)^2$ is

a) -1 b) 0 c) 1 d) 0.36

Q7. The fraction $\frac{2}{5}$ converted to percentage is

a) 20% b) 30% c) 40% d) 50%

Q8. The S.I. of ` 100 of 1 year at the rate of 3 paisa per rupee per month is

a) ` 30 b) ` 36 c) ` 24 d) ` 48

Q9. Sapna purchased a cycle for ` 1000 and sold it for ` 1200. Find her gain %

a) 20% b) 10% c) 40% d) 12%

B) Fill in the blanks: (1 mark each)

Q1. Compound interest = Amount - _____.

Q2. There are _____ quarters in 2½ years.

Q3. If A can do a piece of work in x days, then the work done by A in one day is _____.

Q4. When x = 6, y = 8, x varies inversely with y. If x = 8, then y = _____.

Q5. $2x^2 + 3x + 1$ is divided by x + 1, then the remainder is _____.

Q6. On dividing $-15a^2bc^2$ by 5ab, the quotient is _____.

C) Very short answer type questions: (1 mark each)

Q1. Find the value of a if $8a = (60)^2 - (52)^2$.

Q2. Factorize $(2x + y)^2 - 8xy$

Q3. Is the age of a boy and his height in direct proportions? If not, why?

Q4. The rent of 7 hectares is ` 875. What is the rent of 16 hectares?

Q5. Calculate amount for ` 100 compounded annually at the rate of 10% per year for one year.

Q6. The marked price of a shirt is ` 850. If the shopkeeper allows a discount of 20%. Find the discount and the selling price.