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WORKSHEET

GRADE: 8– ANNUAL EXAMINATION202021

SUBJECT: MATHEMATICS

Blocks 15, 17, 18, 19,20

Choose the correct answer.

1) The sum of -7pq and 2pq is:

    (a) -9pq   (b) 9pq   (c) 5pq   (d) -5pq

2) $a^2 - b^2 = (a + b) \times$ _____

    a) (a+b)   b) (a-b)   c) ab   d) a/b

3) The coefficient of x in $3x + 4y$ is

a)4   b) 0   c)1   d)3

4. The factors of $15y^2$ are

 a) 15,y,y   b)3,y,y   c)15,y   d)y

5) $20 x^2y \div 4x$ is

    a) 5x   b)5xy   c)20xy   d) 5y

6) $(5ge^2 - 7g^2e + 3ge + 9)$ is subtracted from $(25g^2e - 43ge^2 + 7ge + 43)$. The difference is added to thesum of $(g^2e + 27)$ and 2 times $(5ge^2 + 6g + 7)$. Write out the resulting algebraic expression.

7) Answer the following questions.

  (a) $(3g + 5) (4m - 3) + (7mg +6)$

  (b) $(6y + 3) (7x - 5) + (9x + 5) (7y - 9)$

  (c) $8rm^3 \times 6m^3 r^5$

  (d) $p^5q^6 \times q^5p^5$

  (e) $(5c^3d)^2$

8) Factorise using identities : $a)x^2 - 49$.

b) $x^2-18x+81$

9)Divide: $8(x^3y^2z^2 + x^2y^3z^2 + x^2y^2z^3) \div 4x^2y^2z^2$

10) An article is marked at ₹ 940. If it is sold for ₹ 799, then find the discount percentage.

11) A watch was bought for ₹ 2,700 including 8% VAT. Find its price before the VAT was added.

12) Vikram offers a discount of 20% on all the items at his shop and still makes a profit of 12%. What is thecost price of an article marked at ₹ 280?

13) The price of oil rises from ₹120 per litre to ₹ 150 per litre. Find the percentage rise in the price of oil?

14) The population of a small locality in Gurgaon was 1000 in 2014 and became 1500 in 2015. By what percentdid the population increases?