



AL KHOZAMA INTERNATIONAL SCHOOL, DAMMAM

B.E.S.T. Group of Schools, K.S.A.

WORKSHEET

GRADE: – ANNUAL EXAMINATION 202021

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) $a^2 - b^2 = (a + b) \times \underline{\hspace{2cm}}$

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

a) $5x$

b) $5xy$

c) $20xy$

d) $5y$

6) $(5g^2 - 7g^2e + 3ge + 9)$ is subtracted from $(25g^2e - 43ge^2 + 7ge + 43)$. The difference is added to the sum 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) $8m^3 \times 6m^3 r^5$

(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 the cost 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 percent did the population increase?