MATHS

Factorisation of Quadratic Equations Worksheet

For students preparing for MAH-B.BCA/BBA/BMS/BBM CET 2024 for admission to BCA, BBA, BMS, BBM

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1. *The factors of* $2x^2 - 7x + 3$ *are*:
   A. $(x - 3)(2x - 1)$
   B. $(x + 3)(2x + 1)$
   C. $(x - 3)(2x + 1)$
   D. $(x + 3)(2x - 1)$

2. *The factors of* $6x^2 + 5x - 6$ *are* :
   A. $(2x - 3)(3x - 2)$
   B. $(2x - 3)(3x + 2)$
   C. $(2x + 3)(3x - 2)$
   D. $(2x + 3)(3x + 2)$

3. *The factors of* $3x^2 - x - 4$ *are*:
   A. $(3x - 4)(x - 1)$
   B. $(3x - 4)(x + 1)$
   C. $(3x + 4)(x - 1)$
   D. $(3x + 4)(x + 1)$

4. *The factors of* $12x^2 - 7x + 1$ *are*:
   A. $(4x - 1)(3x - 1)$
   B. $(4x - 1)(3x + 1)$
   C. $(4x + 1)(3x - 1)$
   D. $(4x + 1)(3x + 1)$

5. $(x + 8)(x - 10)$
in the expanded form is:
   A. $x^2 - 8x - 80$
   B. $x^2 - 2x - 80$
   C. $x^2 + 2x + 80$
   D. $x^2 - 2x + 80$

6. *The value of* 95×96 *is*
   A. 9020
   B. 9120
   C. 9320
   D. 9340

7. The value of 104×96 is:
   A. 9984
   B. 9624
   C. 9980
   D. 9986

8. *If* $(x - 2)$ *is a factor of* $(x^3 - 3x + 5a)$ *then the value of* a *is*:
   A. 1
   B. -1
   C. $-2/5$
   D. $2/5$

9. *Find the correct identity*
   A. $(a + b)^2 = a^2 + 2ab + b^2$
   B. $(a + b)^2 = a^2 - 2ab + b^2$
   C. $(a - b)^2 = a^2 + 2ab + b^2$
   D. $(a^2 - b^2) = a^2 + 2ab + b^2$

10: *Factor of* $4p^2 - 9q^2$ *are*
   A. $(4p + 9q)(4p - 9q)$
   B. $(2p + 3q)(2p - 3q)$
   C. $(2p - 3q)(2p - 3q)$
   D. $(4p + 9q)(4p + 9q)$

Answer Key

1. A	2. C	3. B	4. A	5. B	6. B	7. A	8. C	9. A	10. B