

ICET SAMPLE PAPERS

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1. What is the value of X?
 1. $X + 2Y = 8$
 2. $2X + Y = 19$
2. Is $X > Y$?
 1. $X^2 > Y^2$
 2. $X^3 > Y^3$
3. What is the value of x?
 1. $2x^2 = 18$
 2. $x^2 - y = 0$
4. Is $y < x$?
 1. $4x = 20$
 2. $\sqrt{y} = 4$
5. Is $2x > 3y$?
 1. $X^2 + Y^2 + Z^2 = 0$
 2. $2X + 3y \geq 5Z$
6. Is $x > y$?
 1. The ratio of x and y is 5 : 7
 2. $2Y = 42$
7. If x and y are positive, what is the value of $8x^3 + 2Y^4$?
 1. $\sqrt{x} = 2$
 2. $3x + 7y = 19$
8. Is $xy > 0$?
 1. $2x + 3y = 0$
 2. $x\sqrt{y} = 0$
9. Is $x > y$?
 1. $ax > 0$
 2. $ay < 0$
10. What is the value of x?
 1. $x^2 = 16$
 2. $x^3 = 64$
11. What is the value of $2x^2 - 4y$?
 1. $x^2 - 27 = 17$
 2. $x = 3$

12. What is the value of $x^2 - y^2 + 2z^2$?
1. $x + y = 17$
 2. $y + z = -4$
13. What is the value of $5x + 3y$?
1. $9y + 15x = 27$
 2. $4x - 7y = 0$
14. What is the difference between a and b?
1. $2a + b + c = 17$
 2. $3b + c = 0$
15. What are the values of x and y?
1. $3x + 7y = 15$
 2. x, y are real numbers
16. What is the value of ?
1. $x > 0; y = 1$
 2. $6x = 7y$
17. What is the value of y, when $x = 5$?
1. When $x = 3, y = 24$
 2. The value of y is inversely proportional to x^2
18. What is the value of $3x - 5y$?
1. $3x + 5y = 25$
 2. $9x^2 = 25y^2$
19. Is $x > y$?
1. $3x = 4y$
 2. $X^2 > y^2$
20. What is the value of 'x'?
1. $x - 2y = 3$
 2. $x^2 - 4y^2 = 27$

Answers for the above questions are mentioned below.

KEY

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|-----------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|----------|------------|----------|------------|
| 1) | 3 | 2) | 2 | 3) | 4 | 4) | 3 | 5) | | | | | | |
| 1 | 6) | 3 | 7) | 3 | 8) | 2 | 9) | 4 | 10) | | | | | |
| 2 | | 11) | 1 | 12) | 4 | 13) | 1 | 14) | 3 | 15) | 4 | 16) | 2 | 17) |
| 3 | 18) | 3 | 19) | 4 | 20) | 3 | | | | | | | | |