MATHS BASICS

Questions based Algebraic Formula Worksheet

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

---

1). $(25.732)^2 - (15.732)^2$ *find the value* ?
   A. 414.64
   B. 419.32
   C. 317.84
   D. 381.89

2). $\dfrac{15.72 \times 15.72 - 5.72 \times 5.72}{15.72 + 5.72}$ *find the value* ?

   A. 25
   B. 16
   C. 11
   D. 10

3). $\dfrac{29\frac{4}{9} \times 29\frac{4}{9} - 25\frac{5}{9} \times 25\frac{5}{9}}{29\frac{4}{9} - 25\frac{5}{9}}$

   A. 55
   B. 53
   C. 45
   D. 49

4). $2\frac{3}{5} \times 2\frac{3}{5} + 2 \times 2\frac{3}{5} \times \frac{2}{5} + \frac{2}{5} \times \frac{2}{5}$ *find value* ?
   A. 12
   B. 7
   C. 9
   D. 11

5) $7.55 \times 7.55 - 2 \times 7.55 \times 2.55 + 2.55 \times 2.55$
find the value ?
   A. 24
   B. 16
   C. 29
   D. 25

6) $\frac{3}{5} \times .6 \times .6 + 3 \times \frac{3}{5} \times \frac{3}{5} \times .4 + 3 \times .6 \times \frac{2}{5} \times \frac{2}{5} + .4 \times .4 \times .4$ *find the value* ?
   A. 2
   B. 1
   C. 4
   D. 5

7) $0.245 \times 0.245 + 0.655 \times 0.655 + 2 \times 0.245 \times 0.655$ *find the value* ?

   A. 81
   B. 78
   C. 83
   D. 79

---

8). $\dfrac{3.457 \times 3.457 - 2.543 \times 2.543}{3.457 - 2.543}$ $find\ the\ value$?

    A. 7
    B. 6
    C. 9
    D. 13

9). $\dfrac{(0.472)^3 + (0.528)^3}{0.472 \times 0.472 - 0.472 \times 0.528 + 0.528 \times 0.528}$ =?

    A. 5
    B. 13
    C. 9
    D. 1

10. $\dfrac{(0.1)^3 + (0.2)^3 + (0.3)^3 - 3 \times 0.1 \times 0.2 \times 0.3}{(0.1)^2 + (0.2)^2 + (0.3)^2 - 0.1 \times 0.2 - 0.1 \times 0.3 - 0.2 \times 0.3}$ $find\ the\ value$?

    A. 60
    B. 0.6
    C. 0.06
    D. 0.006

11). $\dfrac{2.357 \times 2.357 - 0.857 \times 0.857}{(2.357)^2 + (0.857)^2 - 2.357 \times 1.714}$ $find\ the\ value$?

    A. 2.14
    B. 2.35
    C. 2.85
    D. 2.39

12). $\dfrac{5.75 \times 5.75 + 3.25 \times 3.25 - 11.5 \times 3.25}{5.75 \times 5.75 - 3.25 \times 3.25}$ $find\ the\ value$?

    A. 18
    B. 19
    C. 28
    D. 29

13). $\dfrac{0.2 \times 0.2 \times 0.2 + 0.02 \times 0.02 \times 0.02}{0.6 \times 0.6 \times 0.6 + 0.06 \times 0.06 \times 0.06}$

$\div \dfrac{2\frac{1}{3} - 1\frac{1}{6}}{2\frac{1}{3} + 1\frac{1}{6}}$ *find the value* ?

A. $\dfrac{1}{12}$

B. $\dfrac{1}{7}$

C. $\dfrac{1}{6}$

D. $\dfrac{1}{9}$

14). $\dfrac{0.426 \times 0.426 - 0.174 \times 0.174}{0.426 - 0.174}$ *find the value* ?

A. 0.8
B. 0.6
C. 0.9
D. 0.4

15). $\dfrac{0.321 \times 0.321 - 0.179 \times 0.179}{0.321 - 0.179}$ *find the value* ?

A. 0.5
B. 0.7
C. 0.4
D. 0.6

16). $\dfrac{\frac{1.2}{1.3} \times \frac{1.2}{1.3} - \frac{1.4}{1.7} \times \frac{1.4}{1.7}}{\frac{1.2}{1.3} - \frac{1.4}{1.7}}$ *find the value* ?

A. $1\frac{25}{11}$

B. $1\frac{16}{25}$

C. $1\frac{165}{221}$

D. $1\frac{141}{224}$

17). $\dfrac{17.3 \times 17.3 \times 17.3 + 7.3 \times 7.3 \times 7.3}{17.3 \times 17.3 - 17.3 \times 7.3 + 7.3 \times 7.3}$ *find the value* ?

A. 16.4
B. 25.08
C. 18.96
D. 24.6

18). $\dfrac{15.7 \times 15.7 \times 15.7 - 5.7 \times 5.7 \times 5.7}{15.7 \times 15.7 + 15.7 \times 5.7 + 5.7 \times 5.7}$ *find the value* ?
   A. 12
   B. 10
   C. 15
   D. 14

19). $\dfrac{(1.5)^3 + (4.7)^3 + (3.8)^3 - 3 \times 1.5 \times 4.7 \times 3.8}{(1.5)^2 + (4.7)^2 + (3.8)^2 - 1.5 \times 4.7 - 4.7 \times 3.8 - 1.5 \times 3.8}$ *find the value* ?
   A. 11
   B. 10
   C. 9
   D. 13

20. $\dfrac{(17.5 + 29.3)^2 + (29.3 - 17.5)^2}{(29.3)^2 + (17.5)^2}$ *find the value* ?
   A. 5
   B. 8
   C. 2
   D. 4

21). $\left(\dfrac{0.8 \times 0.8 \times 0.8 + 0.4 \times 0.4 \times 0.4}{0.4 \times 0.4 \times 0.4 + 0.2 \times 0.2 \times 0.2}\right)^2$ *find the value* ?
   A. 64
   B. 48
   C. 76
   D. 59

22). $\dfrac{3.47 \times 3.47 - 2.53 \times 2.53}{1 - 0.06}$ *find the value* ?
   A. 12
   B. 8
   C. 6
   D. 10

Answer Key

1. A	2. D	3. A	4. C	5. D	6. B	7. A	8. B	9. D	10. B
11. A	12. C	13. D	14. B	15. A	16. C	17. A	18. B	19. B	20. C
21. A	22. C								