## Subject-Mathematics

Topic - Basic Algebra calculation
(Worksheet)

1. $\mathrm{a}+2 \mathrm{a}$
2. $3 \mathrm{a}-\mathrm{a}$
3. $2 a \times 3 a$
4. $4 a \div 2 a$
5. $5 a+2 a$
6. $3 \mathrm{a}-4 \mathrm{a}$
7. $\mathrm{a} \times 0$
8. $2 a \div a$
9. $3 \mathrm{a}+\mathrm{a}$
$10.4 a \times 5 \mathrm{a}$
$11.6 \mathrm{a} \div 2 \mathrm{a}$
$12.2 \mathrm{a}-\mathrm{a}$
10. $\mathrm{a}+\mathrm{a}$
$14.3 \mathrm{a} \times 2 \mathrm{a}$
$15.4 a \div 4 a$
$16.5 \mathrm{a}-3 \mathrm{a}$
$17 . \mathrm{a} \times 1$
$18.2 \mathrm{a} \div 3 \mathrm{a}$
$19.4 a+3 a$
$20.5 \mathrm{a} \times 0$
$21.2 \mathrm{a} \div \mathrm{a}$
$22.3 \mathrm{a}-2 \mathrm{a}$
11. $\mathrm{a}+0$
$24.4 \mathrm{a} \times \mathrm{a}$
$25.5 \mathrm{a} \div 5 \mathrm{a}$
26.6a-a
$27.2 \mathrm{a} \times 4 \mathrm{a}$
$28.3 \mathrm{a} \div 2 \mathrm{a}$
29.a+a
$30.5 \mathrm{a}-4 \mathrm{a}$
$31.6 \mathrm{a} \times 1$
$32.2 \mathrm{a} \div \mathrm{a}$
$33.3 \mathrm{a}+2 \mathrm{a}$
$34.4 \mathrm{a}-3 \mathrm{a}$
$35.5 \mathrm{a} \times 2 \mathrm{a}$
$36 . a \div 1$
$37.2 \mathrm{a}+3 \mathrm{a}$
$38.4 \mathrm{a} \div \mathrm{a}$
$39.5 \mathrm{a}-2 \mathrm{a}$
$40.6 \mathrm{a} \times 0$
$41.2 \mathrm{a} \div \mathrm{a}$
$42.3 \mathrm{a} \times 5 \mathrm{a}$
$43.4 \mathrm{a} \div 2 \mathrm{a}$
44.a+a
$45.5 \mathrm{a}-\mathrm{a}$
$46.6 \mathrm{a} \times 4 \mathrm{a}$
$47.2 a \div 4 \mathrm{a}$
$48.3 a+4 a$
49.a-a
$50.5 \mathrm{a} \times 3 \mathrm{a}$
12. Tom has twice as many apples as Mary. If Mary has a apples, how many apples does Tom have?
13. The sum of two consecutive integers is 25 . Find the integers.
14. The perimeter of a rectangle is 42 meters. If the length is a meters and the width is $5 \mathrm{a}-5$ meters, find the dimensions of the rectangle.
15. A car travels at a speed of 60 miles per hour. How far will it travel in $t$ hours?
16. John is three times as old as his sister. If his sister is s years old, how old is John?
17. The sum of three consecutive odd integers is 57 . Find the integers.
18. A rectangle has a length that is 4 meters less than twice its width. If the width is $w$, find the length of the rectangle.
19. A father is four times as old as his son. If the son is s years old, how old is the father?
20. The difference between a number and five is 12 . Find the number.
21. The perimeter of a rectangle is 26 cm . If the width is $\boldsymbol{w} \mathrm{cm}$ and the length is $4 w+4 \mathrm{~cm}$, find the value of $\boldsymbol{w}$ and the dimensions of the rectangle.
22. A number is increased by 5 , and the result is multiplied by 3 . If the final result is 27 , find the original number.
23. If a certain number is multiplied by 2 and then subtracted by 8 , the result is 14 . Find the original number.
24. A carpenter cuts a piece of wood into two pieces. If the length of the original piece is $\boldsymbol{a}$ inches and one piece is $3 a$ inches, find the length of the other piece.
25. The sum of a number and 7 is equal to twice the number. Find the value of the number.
26. A bag contains twice as many red marbles as blue marbles. If there are $\boldsymbol{b}$ blue marbles, find the total number of marbles in the bag in terms of $\boldsymbol{b}$.
27. The cost of a shirt is $\$ 20$ more than twice the cost of a hat. If the cost of the hat is $\boldsymbol{h} \boldsymbol{h}$ dollars, find the cost of the shirt.
28. A rectangle has a length of $2 \boldsymbol{a}$ units and a width of $\boldsymbol{a}$ units. If the area is 30 square units, find the value of $\boldsymbol{a}$.
29. A cyclist travels at a speed of $\boldsymbol{v} \mathrm{km} / \mathrm{h}$. If the total time of travel is 5 hours, express the total distance traveled in terms of $\boldsymbol{v}$.
30. The sum of three consecutive even integers is 42 . Find the integers.
31. $3 x+2 y+4 x-5 y$
32. $a^{2}-2 a b+b^{2}+a^{2}+3 a b-4 b^{2}$
33. $2 m^{2}+5 m n+3 m^{2}-2 m n$
34. $x^{3}+2 x^{2}-x+4 x^{3}-3 x^{2}+2 x$
35. $2 p^{2} q-3 p q^{2}+5 p^{2} q+2 p q^{2}$
36. $a+2 b-3 c+-2 a+4 b+5 c$
37. $4 x^{2}-7 x y+3 y^{2}+-2 x^{2}+5 x y-y^{2}$
38. $3 a b+2 b c+-a b-4 b c$
39. $2 m^{3}-5 m^{2} n+3 m n^{2}+-m^{3}+4 m^{2} n-2 m n^{2}$
40. $x^{4}-2 x^{3}+x^{2}-x+3 x^{4}+4 x^{3}-2 x^{2}+5 x$
41. $a^{3}+2 a^{2}-a+-3 a^{3}+4 a^{2}+5 a$
42. $2 x y^{2}+3 x^{2} y+-x y^{2}-2 x^{2} y$
43. $5 a b-2 a c+3 b c+-3 a b+a c-4 b c$
44. $2 p^{2}+5 p q-3 q^{2}+-p^{2}-2 p q+4 q^{2}$
45. $x^{3}-2 x^{2}+x+-3 x^{3}+4 x^{2}-5 x$
46. $4 a^{2} b-a b^{2}+2 a^{2} c+-2 a^{2} b+a b^{2}-3 a^{2} c$
47. $2 m^{2} n-3 m n^{2}+5 m^{2} n+2 m n^{2}$
48. $x^{4}-x^{3}+2 x^{2}+-2 x^{4}+3 x^{3}-x^{2}$
49. $3 p q-2 q r+r p+-p q+4 q r-5 r p$
50. $a^{3}+2 a^{2}-a+-a^{3}+4 a^{2}+3 a$
51. $2 x y+3 y z+-x y-2 y z$
52. $5 a b^{2}-2 a^{2} b+-3 a b^{2}+4 a^{2} b$
53. $3 m^{3} n-4 m^{2} n^{2}+-2 m^{3} n+5 m^{2} n^{2}$
54. $x^{5}-2 x^{4}+x^{3}+-3 x^{5}+4 x^{4}-2 x^{3}$
55. $4 a^{3}-2 a^{2}+a+-2 a^{3}+3 a^{2}-5 a$
56. $2 p q^{2}-3 p^{2} q+-5 p q^{2}+4 p^{2} q$
57. $x^{3}-2 x^{2}+x+-x^{3}+3 x^{2}-2 x$
58. $4 a b+2 b c+-2 a b-3 b c$
59. $3 m^{2}+5 m n+-4 m^{2}+2 m n$
60. $x^{4}-2 x^{3}+x^{2}+2 x^{4}-3 x^{3}+2 x^{2}$
61. $a^{3}+2 a^{2}-a+3 a^{3}-4 a^{2}-2 a$
62. $2 x y^{2}+3 x^{2} y+-x y^{2}-2 x^{2} y$
63. $5 a b-2 a c+3 b c+-3 a b+a c-4 b c$
64. $2 p^{2}+5 p q-3 q^{2}+-p^{2}-2 p q+4 q^{2}$
65. $x^{3}-2 x^{2}+x+-3 x^{3}+4 x^{2}-5 x$
66. $4 a^{2} b-a b^{2}+2 a^{2} c+-2 a^{2} b+a b^{2}-3 a^{2} c$
67. $2 m^{2} n-3 m n^{2}+5 m^{2} n+2 m n^{2}$
68. $x^{4}-x^{3}+2 x^{2}+-2 x^{4}+3 x^{3}-x^{2}$
69. $3 p q-2 q r+r p+-p q+4 q r-5 r p$
70. $a^{3}+2 a^{2}-a+-a^{3}+4 a^{2}+3 a$
71. $2 x y+3 y z+-x y-2 y z$
72. $5 a b^{2}-2 a^{2} b+-3 a b^{2}+4 a^{2} b$
73. $3 m^{3} n-4 m^{2} n^{2}+-2 m^{3} n+5 m^{2} n^{2}$
74. $x^{5}-2 x^{4}+x^{3}+-3 x^{5}+4 x^{4}-2 x^{3}$
75. $4 a^{3}-2 a^{2}+a+-2 a^{3}+3 a^{2}-5 a$
76. $2 p q^{2}-3 p^{2} q+-5 p q^{2}+4 p^{2} q$
77. $x^{3}-2 x^{2}+x+-x^{3}+3 x^{2}-2 x$
