

Worksheet: The Binomial Law

Simplify as fully as possible.

1. $a^2 \times a^3 =$
2. $a \times a^2 =$
3. $a^2 \times a^2 \times a^2 =$
4. $2a^2 \times 3a^2 =$
5. $(2a^2)(3a^2) =$
6. $(2a^2)(3a^2)(4a^2) =$
7. $(2a^2)(3a^2)(4a^2)(5a^2) =$
8. $(2a^2)(3a^2)(4a^2)(5a^2)(6a^2) =$
9. $(2a^2)(3a^2)(4a^2)(5a^2)(6a^2)(7a^2) =$
10. $(2a^2)(3a^2)(4a^2)(5a^2)(6a^2)(7a^2)(8a^2) =$
11. $\frac{a^5}{a^2} =$
12. $\frac{a^5}{a^2} \times a^2 =$
13. $\frac{a^5}{a^2} \times a^3 =$
14. $\frac{a^5}{a^2} \times \frac{a^3}{a^2} =$
15. $\frac{a^5}{a^2} \times \frac{a^3}{a^2} \times a^2 =$
16. $\frac{2a^5}{3a^2} \times 4a^2 =$
17. $\frac{2a^5}{3a^2} \times \frac{4a^2}{5a^2} =$
18. $(2a^2)(3a^2)(4a^2)(5a^2)(6a^2)(7a^2) =$

19. $\frac{2a^5}{3a^2} \times$
20. $(2a^2)(3a^2)(4a^2)(5a^2)(6a^2)(7a^2)(8a^2) =$
21. $\frac{2a^5}{3a^2} \times$
22. $\frac{2a^5}{3a^2} \times$
23. $\frac{2a^5}{3a^2} \times$
24. $\frac{2a^5}{3a^2} \times a^2 =$
25. $\frac{2a^5}{3a^2} \times a^3 =$
26. $\frac{2a^5}{3a^2} \times \frac{4a^2}{5a^2} =$
27. $\frac{2a^5}{3a^2} \times$
28. $\frac{2a^5}{3a^2} \times a^2 =$
29. $\frac{2a^5}{3a^2} \times a^3 =$
30. $\frac{2a^5}{3a^2} \times \frac{4a^2}{5a^2} =$
31. $\frac{2a^5}{3a^2} \times$
32. $\frac{2a^5}{3a^2} \times a^2 =$
33. $\frac{2a^5}{3a^2} \times a^3 =$
34. $\frac{2a^5}{3a^2} \times \frac{4a^2}{5a^2} =$
35. $\frac{2a^5}{3a^2} \times$

Answers

1. a^5
2. a^3
3. a^6
4. $6a^4$
5. $6a^4$
6. $24a^6$
7. $120a^8$
8. $720a^{10}$
9. $5040a^{12}$
10. $40320a^{14}$
11. a^3
12. a^5
13. a^8
14. a^6
15. $2a^6$
16. $\frac{8a^3}{3}$
17. $\frac{4a^3}{15}$
18. $5040a^{12}$
19. a^3
20. $40320a^{14}$
21. a^3
22. a^3
23. a^3
24. a^5
25. a^8
26. $\frac{8a^3}{3}$
27. a^3
28. a^5
29. a^8
30. $\frac{8a^3}{3}$
31. a^3
32. a^5
33. a^8
34. $\frac{8a^3}{3}$
35. a^3