

Terme**Lösungen****Prüfungsvorbereitung**

Vereinfache die Terme.

1. $0 \cdot q = 0$

2. $1 \cdot r = r$

3. $2 \cdot m \cdot n = 2mn$

4. $9m + 8m = 17m$

5. $9w + w = 10w$

6. $11e - 10e = e$

7. $14d - d = 13d$

8. $5x + 9y = 5x + 9y$ (unverträgliche Monome!)

9. $3c - 5d = 3c - 5d$ (unverträgliche Monome!)

10. $2c + 6 + 8c - 1 = 10c + 5$

11. $6v + 7w + 6v - 4w = 12v + 3w$

12. $8ab + 8ab - 9ab = 7ab$

13. $9cd + dc = 10cd$

14. $7pq^2 + p^2q + 8q^2p = 15pq^2 + p^2q$

15. $5 \cdot 7cd = 35cd$

16. $5g \cdot 5h = 25gh$

17. $4c^2 \cdot 9c^4 = 36c^6$

18. $5st \cdot 2tu = 10st^2u$

19. $4ef \cdot 2fg \cdot 4gh = 32ef^2g^2h$

20. $20c : 4 = 5c$

21. $13w : w = 13$

22. $20f : 4f = 5$
23. $16ab : 4a = 4b$
24. $(4t)^2 = 4t \cdot 4t = 16t^2$
25. $(ghk)^3 = g^3h^3k^3$
26. $98c + (219c - 216c) = 98c + 3c = 101c$
27. $98r + (289s - 288s) = 98r + s$
28. $18g + (6h - 17g) = 18g + 6h - 17g = g + 6h$
29. $13x - (11x + 8y) = 13x - 11x - 8y = 2x - 8y$
30. $14p - (9q - 8p) = 14p - 9q + 8p = 22p - 9q$
31. $24c \cdot (2d : 4c) = 24c \cdot 2d : 4c = 24c : 4c \cdot 2d = 6 \cdot 2d = 12d$
32. $60pqr : (5q \cdot 4r) = 60pqr : 5q : 4r = 12pr : 4r = 3p$
33. $4pqr : (2q : 4r) = 4pqr : 2q \cdot 4r = 2pr \cdot 4r = 8pr^2$
34. $4r(5s - 3s) = 4r \cdot 2s = 8rs$
35. $2(4g - 2h) = 8g - 4h$
36. $3d(8e + 9f - 8) = 24de + 27df - 24d$
37. $(9g + 27h) : 3 = 9g : 3 + 27h : 3 = 3g + 9h$
38. $(18de - 36ef) : 6e = 18de : 6e - 36ef : 6e = 3d - 6f$
39. $18c + 9d - 2(7c + 3d) = 18c + 9d - 14c - 6d = 4c + 3d$
40. $16de - (19df + 5d(3e - 2f)) = 16de - (19df + 15de - 10df)$
 $= 16de - (9df + 15de)$
 $= 16de - 9df - 15de$
 $= de - 9df$