

NAME _____ DATE _____ PERIOD _____

7.1C – ZERO AND NEGATIVE EXPONENTS

(09-10/BR)

WRITE IN SIMPLEST FORM WITHOUT ZERO OR NEGATIVE EXPONENTS.

1. 10^{-2}

2. $(-4)^{-1}$

3. 17^0

4. $5t^3$

5. $-8a^{-2}$

6. $(-8a)^{-2}$

7. $2^{-1}h^{-5}k^0$

8. $3^2u^{-1}v^{-2}$

9. $3^{-2} \cdot 3^{-1}$

10. $(-2)^2 \cdot (-2)^{-5}$

11. $(5^{-2})^2$

12. $(-2^{-1})^{-2}$

13. $(4 \cdot 6^{-1} \cdot 7^0)^{-1}$

14. $\frac{4^2x^{-1}}{4^{-1}x^{-2}}$

15. $\frac{z^{-6}}{z^2}$

16. $\frac{s^{-3}t^{-4}}{s^{-2}t^0}$

17. $\frac{9ab^{-2}}{-3a^{-3}b^{-1}}$

18. $\frac{18u^4v^{-5}}{u^{-1}v^7}$

WRITE IN SIMPLEST FORM WITHOUT ZERO OR NEGATIVE EXPONENTS.

19. $\left(\frac{5}{2}\right)^{-2}$

20. $\left(\frac{2}{3}\right)^{-3}$

21. $\left(\frac{2}{x^2y^{-3}}\right)^{-2}$

22. $\left(\frac{3pq^{-1}}{p^{-2}}\right)^{-1}$

23. $4z(2y^2z)^{-2}$

24. $\frac{(2a^{-1})^{-3} (3a^3)^{-2}}{2(a^{-1})^{-2} a^{-3}b^{-3}}$

25. $\left(\frac{x^3}{y^{-1}}\right)^{-2} \left(\frac{y^3}{x^{-2}}\right)^2$

26. $\left(\frac{c^2}{d^{-6}}\right)^0 \left(\frac{c^{-5}}{d^{-1}}\right)^2$

27. $\frac{-(-6a^2c^{-8})^3}{4(a^{-7}c^{18})^{-2}}$