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$$17) (2b^3)^{-1} = \frac{1}{2b^4}$$

$$18) (x^2y^{-1})^2 = \frac{x^4}{y^2}$$

$$19) (2x^4y^{-3})^{-1} = \frac{y^3}{2x^4}$$

$$20) (3m)^{-2} = \frac{1}{9m^2}$$

$$21) \frac{r^2}{2r^3} = \frac{1}{2r}$$

$$22) \frac{x^{-1}}{4x^4} = \frac{1}{4x^5}$$

$$23) \frac{3n^4}{3n^4} = n$$

$$24) \frac{m^4}{2m^4} = \frac{1}{2}$$

$$25) \frac{3m^4}{m^7} = \frac{3}{m^3}$$

$$26) \frac{2x^4y^{-4}z^{-1}}{3x^2y^{-2}z^4} = \frac{2x^2}{3yz^5}$$

$$27) \frac{4x^6y^{-2}z^{-1}}{4x} = \frac{z^3}{xy^2}$$

$$28) \frac{2h^3j^{-1}k^4}{3jk} = \frac{2h^3k^3}{3j^4}$$

$$29) \frac{4m^4n^3p^3}{3m^2n^2p^4} = \frac{4m^2n}{3p}$$

$$30) \frac{3x^3y^{-1}z^{-1}}{x^{-4}y^2z^0} = \frac{3x^7}{yz}$$



$$9^2 - 4 = \underline{77}$$

$$7^3 + 5 = \underline{348}$$

$$8 + 6^2 = \underline{44}$$

$$9^2 + 2 = \underline{83}$$

$$3 - 7^2 = \underline{-46}$$

$$8 - 1^3 = \underline{7}$$

$$6^3 + 5 = \underline{221}$$

$$7 + 7^1 = \underline{14}$$

$$1 + 4^2 = \underline{17}$$

$$8 - 3^2 = \underline{-1}$$

$$8^3 - 5 = \underline{507}$$

$$9^3 + 5 = \underline{734}$$

$$3 + 2^2 = \underline{7}$$

$$4^0 - 3 = \underline{-2}$$

$$7^2 + 9 = \underline{58}$$

$$6^2 - 1 = \underline{35}$$

Total: 16    Goal: \_\_\_\_\_    Complete: \_\_\_\_\_    Correct: \_\_\_\_\_

# NEGATIVE AND ZERO EXPONENTS WORKSHEET

## 1. Write each power with a positive exponent.

- |                  |                  |                   |                   |
|------------------|------------------|-------------------|-------------------|
| a) $2^{-3}$      | b) $4^{-1}$      | c) $10^{-2}$      | d) $8^{-4}$       |
| e) $1^{-5}$      | f) $(-3)^{-2}$   | g) $(-2)^{-3}$    | h) $(-5)^{-1}$    |
| i) $\frac{1}{2}$ | j) $\frac{1}{3}$ | k) $\frac{1}{10}$ | l) $\frac{1}{18}$ |

## 2. Evaluate.

- |                  |                       |             |                      |
|------------------|-----------------------|-------------|----------------------|
| a) $2^0$         | b) $3^0$              | c) $1^0$    | d) $4^0$             |
| e) $(-2)^0$      | f) $10^0$             | g) $(-4)^0$ | h) $8^0$             |
| i) $(-10)^0$     | j) $(-100)^0$         | k) $(-1)^0$ | l) $\frac{1}{2}$     |
| m) $\frac{1}{4}$ | n) $\frac{1}{(-2)^0}$ | o) $10^0$   | p) $(\frac{1}{2})^0$ |

## 3. Multiply.

- |                      |                 |                 |                    |
|----------------------|-----------------|-----------------|--------------------|
| a) $(2^3)(2^4)$      | b) $(2^5)(2^7)$ | c) $(2^2)(2^6)$ | d) $(2^{-3})(2^5)$ |
| e) $(2^7)(2^4)(2^3)$ | f) $(2)(2^4)$   | g) $(2^3)(2^2)$ | h) $(2)(2^2)(2^3)$ |

## 4. Simplify.

- |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|
| a) $x^3 \cdot x^2$   | b) $x^5 \cdot x^3$   | c) $x^2 \cdot x^2$   | d) $x^3 \cdot x^2$   |
| e) $\frac{x^5}{x^2}$ | f) $\frac{x^7}{x^3}$ | g) $\frac{x^4}{x^5}$ | h) $\frac{x^2}{x^3}$ |

## 5. Write as a single power.

- |                              |                              |                    |                             |
|------------------------------|------------------------------|--------------------|-----------------------------|
| a) $2^3 \cdot 2^4 \cdot 2^5$ | b) $3^2 \cdot 3^3 \cdot 3^4$ | c) $2^5(2^3)(2^6)$ | d) $(2^3)(2^4) \cdot (2^5)$ |
|------------------------------|------------------------------|--------------------|-----------------------------|

## 6. Simplify.

- |                          |                          |                                |                          |
|--------------------------|--------------------------|--------------------------------|--------------------------|
| a) $\frac{10x^2}{10x^2}$ | b) $\frac{10x^2}{10x^2}$ | c) $\frac{10x}{10x}$           | d) $\frac{10x^2}{10x^2}$ |
| e) $(4x^{-2})^3$         | f) $(3x^{-2})^3(3x^2)$   | g) $\frac{(2x^2)(3x^3)}{2x^2}$ | h) $(2x^2)(3x^2)$        |

## 7. Evaluate.

- |  |                          |                |                        |
|--|--------------------------|----------------|------------------------|
| a) $(2^3)(2^4)$                        | b) $2^3 \cdot 2^4 + 3$   | c) $2^3 - 2^4$ | d) $2^3 + 2^4$         |
| e) $(2^3)^2$                           | f) $2^3 \cdot 2^4 + 2^2$ | g) $(2^3)^2$   | h) $(\frac{2^3}{2})^2$ |
| i) $\frac{1}{2^3} \cdot \frac{1}{2^4}$ | j) $2^3 \cdot 2^4$       | k) $2^3 + 2^4$ | l) $\frac{2^3}{2^4}$   |

Name : \_\_\_\_\_ Score : \_\_\_\_\_  
Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

### Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

- |  |  |
|--|--|
| 1) $a^3 \cdot a^4$   | 8) $(\frac{1}{2})^3 \cdot (\frac{1}{2})^4 \cdot (\frac{1}{2})^5$ |
| 2) $(\frac{1}{3})^2 \cdot (\frac{1}{3})^3$                       | 9) $2x^3 \cdot 2x^4 \cdot 2x^5$                                  |
| 3) $3^5 \cdot 2^3 \cdot 4^2$                                     | 10) $9 \cdot 9^4$  |
| 4) $7y \cdot 2y^2$   | 11) $9b \cdot 6b^2$  |
| 5) $(\frac{1}{2})^3 \cdot (\frac{1}{2})^4 \cdot (\frac{1}{2})^5$ | 12) $9a^3 \cdot 7a^2$  |
| 6) $5d^3 \cdot 4a^2$   | 13) $2d^3 \cdot 6d^2$  |
| 7) $8n^4 \cdot 9n^2$   | 14) $2^3 \cdot 2^4$  |

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## 5-1 Practice: Skills, Concepts, and Problem Solving

### Exponents

Write each expression using exponents.

- |  |  |
|--|--|
| 1. $3 \cdot 3 \cdot m$   | 2. $2 \cdot d \cdot 5 \cdot d \cdot d \cdot 5$   |
| 3. $p \cdot 9 \cdot 3 \cdot q \cdot p \cdot 9$   | 4. $g \cdot 7 \cdot 7 \cdot g \cdot h \cdot 7 \cdot h$   |
| 5. $2 \cdot 5 \cdot r \cdot 7 \cdot s \cdot r \cdot 5 \cdot r \cdot 7 \cdot r \cdot s$ | 6. $x \cdot 8 \cdot y \cdot x \cdot 5 \cdot x \cdot 5 \cdot y \cdot 8 \cdot y \cdot y \cdot 5$ |

Simplify.

- |                             |                              |                          |                                 |
|-----------------------------|------------------------------|--------------------------|---------------------------------|
| 7. $2^4$                    | 8. $5^3$                     | 9. $2^2 \cdot 6^2$       | 10. $2^3 \cdot 5^2$             |
| 11. $3^{-4}$                | 12. $8^{-3}$                 | 13. $9^{-2}$             | 14. $5^{-3}$                    |
| 15. $7 \cdot 2^2 \cdot 5^2$ | 16. $3^2 \cdot 6 \cdot 10^2$ | 17. $3^2 \cdot 2^{-3}$   | 18. $7 \cdot 3^2 \cdot 5^{-4}$  |
| 19. $\frac{2^5}{2^3}$       | 20. $4^2$                    | 21. $\frac{3^4}{3^2}$    | 22. $20^4$                      |
| 23. $8^2$                   | 24. $2^4$                    | 25. $6^3$                | 26. $3^5$                       |
| 27. $\frac{18xy^3}{12y^2}$  | 28. $\frac{14a^2b^2}{2a^2}$  | 29. $\frac{a^3h^2}{gki}$ | 30. $\frac{34m^3n^4}{17m^2n^4}$ |

31. MONEY Suppose \$100 is deposited into an account and the amount doubles every 8 years. How much will be in the account after 40 years?

32. EPIDEMICS At the beginning of an epidemic, 50 people are sick. If the number of sick people triples every other day, how many people will be sick at the end of 2 weeks?

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