

Name : _____

Score : _____

Teacher : _____

Date : _____

Operations with Exponents

Simplify the exponents.

1) $\frac{8b^5}{7b}$

7) $n \cdot n^{-4}$

2) $\frac{b^4}{b^6}$

8) $\frac{5^2}{5^{-4}}$

3) $\frac{d}{d^6}$

9) $3z^5b^3 \cdot 7z^4b^2$

4) $\frac{n^6}{n^{-4}}$

10) $z \cdot z^5$

5) $8s^6 \cdot 4s^2 \cdot 5s^5$

11) $6^{-2} \cdot 6^4$

6) $5k^4 \cdot 9k^{-6}$

12) $\frac{9hb^{-4}}{8h^{-5}b^3}$



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Simplify the exponents.

$$1) \quad \frac{8b^5}{7b}$$
$$\frac{8b^4}{7}$$

$$2) \quad \frac{b^4}{b^6}$$
$$\frac{1}{b^2}$$

$$3) \quad \frac{d}{d^6}$$
$$\frac{1}{d^5}$$

$$4) \quad \frac{n^6}{n^{-4}}$$
$$n^{10}$$

$$5) \quad 8s^6 \cdot 4s^2 \cdot 5s^5$$
$$160s^{13}$$

$$6) \quad 5k^4 \cdot 9k^{-6}$$
$$\frac{45}{k^2}$$

$$7) \quad n \cdot n^{-4}$$
$$\frac{1}{n^3}$$

$$8) \quad \frac{5^{-2}}{5^{-4}}$$
$$5^6$$

$$9) \quad 3z^5b^3 \cdot 7z^4b^2$$
$$21z^9b^5$$

$$10) \quad z \cdot z^5$$
$$z^6$$

$$11) \quad 6^{-2} \cdot 6^4$$
$$6^2$$

$$12) \quad \frac{9hb^{-4}}{8h^{-5}b^3}$$
$$\frac{9h^6}{8b^7}$$

