

Name:

Date: Score:

Negative Exponents Worksheet

Simplify. Your answer should contain only positive exponents

1 11^{-4}

2 $\frac{1}{6^{-4}}$

3 $x^{-2} \cdot x^{-4}$

4 $-\frac{xy^{-1}}{9z^{-2}}$

5 $\frac{p^{-8}}{p^{-6}}$

6 $9q^{-2}$

7 $\frac{f^{-8}}{f^{-5}}$

8 $n^{-12} \cdot n^{-2}$

9 902^{-1}

10 $5^{-2} \cdot 5^{-4} \cdot 5^{-1}$

11 $3 \cdot (3^{-4})^{-2}$

12 $(2^{-2})^{-2} \cdot 2^{-1}$

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Negative Exponents Worksheet

Answers

1 11^{-4}

$$\frac{1}{11^4}$$

3 $x^{-2} \cdot x^{-4}$

$$\frac{1}{x^6}$$

5 $\frac{p^{-8}}{p^{-6}}$

$$\frac{1}{p^2}$$

7 $\frac{f^{-8}}{f^{-5}}$

$$\frac{1}{f^3}$$

9 902^{-1}

$$\frac{1}{902}$$

11 $3 \cdot (3^{-4})^{-2}$

$$3^9$$

2 $\frac{1}{6^{-4}}$

$$6^4$$

4 $-\frac{xy^{-1}}{9z^{-2}}$

$$-\frac{xy^2}{9y}$$

6 $9q^{-2}$

$$\frac{9}{q^2}$$

8 $n^{-12} \cdot n^{-2}$

$$\frac{1}{n^{14}}$$

10 $5^{-2} \cdot 5^{-4} \cdot 5^{-1}$

$$\frac{1}{5^7}$$

12 $(2^{-2})^{-2} \cdot 2^{-1}$

$$2^3$$