Math worksheet on *'Exponents - Power Law with Prime Base (Negatives, Fraction with Power to Exponent) (Level 1)'*. Part of a broader unit on *'Exponents - Negative, Fractional, and Power Law'*

Learn online:

app.mobius.academy/math/units/exponents_negatives_fractions_and_power_law/

1 Find the answer when these terms are multiplied

$$\frac{1}{3^6} \cdot \frac{1}{3^6} \cdot \frac{1}{3^6} \cdot \frac{1}{3^6} \cdot \frac{1}{3^6}$$

a 3^{-3} **b** 3^{-25} **c** 3^{-30} **d** 3^{-29} **e** 3^{-32}

2 Find the answer when these terms are multiplied

$$\frac{1}{5^6} \cdot \frac{1}{5^6} \cdot \frac{1}{5^6} \cdot \frac{1}{5^6} \cdot \frac{1}{5^6} \cdot \frac{1}{5^6}$$

a 5^{-360} **b** 5^{0} **c** 5^{-40} **d** 5^{-36} **e** 5^{-33}

3 Find the answer when these terms are multiplied

$$\frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2} \cdot \frac{1}{7^2}$$

a 7^{-11} **b** 7^{4} **c** 7^{-12} **d** 7^{-1}

4 Find the answer when these terms are multiplied

$$\frac{1}{7^3} \cdot \frac{1}{7^3} \cdot \frac{1}{7^3} \cdot \frac{1}{7^3} \cdot \frac{1}{7^3}$$

a 7^{-16} **b** 7^{-15} **c** 7^{-17} **d** 7^{-12} **e** 7^{-13}

5 Find the answer when these terms are multiplied

$$\frac{1}{2^3} \cdot \frac{1}{2^3} \cdot \frac{1}{2^3} \cdot \frac{1}{2^3} \cdot \frac{1}{2^3}$$

a 2^{0} **b** 2^{2} **c** 2^{-15} **d** 2^{-13} **e** 2^{-12}

6 Find the answer when these terms are multiplied

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

a 2^{0} **b** 2^{-9} **c** 2^{-8} **d** 2^{-7}

7 Find the answer when these terms are multiplied

$$\frac{1}{5^4} \cdot \frac{1}{5^4} \cdot \frac{1}{5^4} \cdot \frac{1}{5^4} \cdot \frac{1}{5^4}$$

a 5 **b** 5^{-16} **c** 5^{-20} **d** 5^{-2} **e** 5^{-21}