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

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1 Find the answer when these terms are multiplied

$$\frac{1}{35^2} \cdot \frac{1}{35^2} \cdot \frac{1}{35^2} \cdot \frac{1}{35^2} \cdot \frac{1}{35^2}$$

a 35^{-11} **b** 35^{3} **c** 35^{-10} **d** 35^{-8}

2 Find the answer when these terms are multiplied

$$\frac{1}{15^5} \cdot \frac{1}{15^5} \cdot \frac{1}{15^5} \cdot \frac{1}{15^5} \cdot \frac{1}{15^5} \cdot \frac{1}{15^5}$$

a 15 **b** 15^{-25} **c** 15^{-30} **d** $15^{-3,000}$ **e** 15^{-28}

3 Find the answer when these terms are multiplied

$$\frac{1}{121^3} \cdot \frac{1}{121^3} \cdot \frac{1}{121^3} \cdot \frac{1}{121^3}$$

a 121^{-9} **b** 121 **c** 121^{-12} **d** 121^{-10} **e** 121^{0}

4 Find the answer when these terms are multiplied

$$\frac{1}{25^2} \cdot \frac{1}{25^2}$$

a 25^{-4} **b** 25^{0} **c** 25^{-3}

5 Find the answer when these terms are multiplied

$$\frac{1}{15} \cdot \frac{1}{15} \cdot \frac{1}{15} \cdot \frac{1}{15}$$

a 15^{3} **b** 15^{-3} **c** 15^{-4} **d** 15^{-40}

6 Find the answer when these terms are multiplied

$$\frac{1}{6^4} \cdot \frac{1}{6^4} \cdot \frac{1}{6^4} \cdot \frac{1}{6^4} \cdot \frac{1}{6^4} \cdot \frac{1}{6^4}$$

a 6^{-240} **b** 6^{-24} **c** 6^{2} **d** $6^{-2,400}$

7 Find the answer when these terms are multiplied

$$\frac{1}{77^3} \cdot \frac{1}{77^3} \cdot \frac{1}{77^3} \cdot \frac{1}{77^3} \cdot \frac{1}{77^3}$$

a 77^{2} **b** 77^{-1} **c** 77^{-16} **d** 77^{-15}