

Unit 1 Quiz:

Number Sense and Fluency (Pre-Algebra) Review Packet

Exponents

Rewrite in expanded form:

1. 23^7 $23 \cdot 23 \cdot 23 \cdot 23 \cdot 23 \cdot 23 \cdot 23$ 2) 3^8 $3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$

3) 5^9 $5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5$ 4) 18^4 $18 \cdot 18 \cdot 18 \cdot 18$

Rewrite in exponential form:

1. $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$
 4^7

2. $11 \cdot 11 \cdot 11 \cdot 11 \cdot 11$
 11^5

3. $9 \cdot 9 \cdot 9 \cdot 9$ 9^4

4. $17 \cdot 17 \cdot 17 \cdot 17 \cdot 17$
 17^5

Rewrite in standard form:

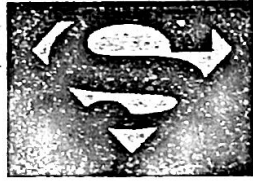
1. $1^{10} = 1$

2. $11^3 = 11 \cdot 11 \cdot 11$
 $\begin{array}{r} 121 \\ 11 \\ \hline 1210 \\ 1331 \end{array}$ $121 \cdot 11 = 1331$

3. $2^4 = 2 \cdot 2 \cdot 2 \cdot 2$
 $\begin{array}{r} 4 \\ 4 \\ \hline 16 \end{array}$

4. $13^2 = 13 \cdot 13$
 $\begin{array}{r} 13 \\ 13 \\ \hline 169 \end{array}$ 130
 169

Order of Operations



1. $3 \times 5 \times (6 - 3)$

$$\begin{aligned} & \checkmark \\ & 3 \cdot 5 \cdot 3 \\ & 15 \cdot 3 \\ & = 45 \end{aligned}$$

2. $12 \div 4 \times 2 - 5$

$$\begin{aligned} & \checkmark \\ & 3 \cdot 2 - 5 \\ & \checkmark \\ & 6 - 5 \\ & = 1 \end{aligned}$$

3. $(21 - 8)^2 \times 36 \div 9$

$$\begin{aligned} & \checkmark \\ & (13)^2 \cdot 36 \div 9 \\ & 169 \cdot 36 \div 9 \\ & 6084 \div 9 \\ & = 676 \end{aligned}$$

$$\begin{array}{r} 676 \\ 9 \overline{)6084} \\ \underline{-54} \\ 68 \\ \underline{-63} \\ 54 \\ \underline{-54} \\ 0 \end{array}$$

4. $(100 \div 5^2) + 10 + 5$

$$\begin{aligned} & \checkmark \\ & (100 \div 25) + 10 + 5 \\ & 4 + 10 + 5 \\ & 14 + 5 \\ & = 19 \end{aligned}$$

5. $(8 + 34 - 6) \div 12$

$$\begin{aligned} & \checkmark \\ & (42 - 6) \div 12 \\ & 36 \div 12 \\ & = 3 \end{aligned}$$

6. $(10 \times 1^5) + (16 \div 2^3 \times 2)^2$

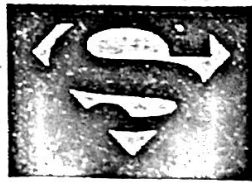
$$\begin{aligned} & (10 - 1) + (16 \div 8 \cdot 2)^2 \\ & 9 + (2 \cdot 2)^2 \\ & 9 + (4)^2 \end{aligned}$$

$$\begin{aligned} & 9 + 16 \\ & = 25 \end{aligned}$$

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$$= 25$$

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