#7 - Practice Test October 23, 2019

1.
$$3^2 \times 3^4 = \frac{3}{729}$$
 Warm Up

2.
$$(-2)^8 \div (-2)^3 \stackrel{=}{-} (-2)^5$$

= -32

3.
$$(4^6)^2 = 4^{12}$$

= $\frac{16}{777} = \frac{2}{16}$

3.
$$(4^{6})^{2} = 4^{1/2}$$

= 16777216
4. $(2^{3} \times 2^{5})^{3} = 29 \times 2^{1/5}$
= 2^{24}
= 16777216
5. $64 = 2^{1/5}$

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$$\frac{(2^{3})^{4} \times (3^{4})^{3}}{(5^{2})^{7} \times (7^{2})^{6}} \times \frac{(5^{2})^{8} \times (7^{3})^{5} \times (2^{4})^{2}}{(2^{10})^{2} \times (3^{3})^{2} \times (7^{0})^{2}}$$

$$= \frac{2^{12} \cdot 3^{12} \cdot 5^{16} \cdot 7^{15} \cdot 2^{8}}{5^{14} \cdot 7^{12} \cdot 2^{20} \cdot 3^{6} \cdot 7^{6}} \qquad (2)(3)(4)$$

$$= \frac{2^{20} \cdot 3^{12} \cdot 5^{16} \cdot 7^{15}}{2^{20} \cdot 3^{6} \cdot 5^{14} \cdot 7^{12}} \qquad (4)(3)(2)$$

$$= 1 \cdot 3^{6} \cdot 5^{2} \cdot 7^{3}$$

$$= 1 \cdot (729)(25)(343)$$

$$= 6 \cdot 251 \cdot 175$$

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$$2^{2} \times 2^{5} \div 2^{4} + 5(-3)^{0}(-3)^{2} - (2^{3} \times 3^{2})^{2}$$

$$\lambda^{7} \div 2^{4} + 5(-3)^{2} - \lambda^{6} \times 3^{4}$$

$$\lambda^{3} + 5(9) - 64 \times 81$$

$$8 + 45 - 5184$$

$$-5131$$
(3)

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If there are 7¹⁰ marbles in a box and there are 7⁶ boxes, then how many marbles are there in total? Use powers rules then evaluate.

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When finished complete the review...

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