WARM-UP: **Simplify (as much as possible using exponent laws) then evaluate.**

$$\frac{\left(4^2\right)^4 \times \left(5^3\right)^2}{\left(5^2\right)^1 \times \left(4^3\right)^2} \times \frac{\left(4^3\right)^5 \times \left(5^3\right)^4}{\left(4^2\right)^6 \times \left(5^2\right)^5}$$

$$\frac{4^8 \times 5^6 \times 4^{15} \times 5^{12}}{5^2 \times 4^6 \times 4^{12} \times 5^{10}}$$

$$\frac{4^{23} \times 5^{18}}{4^{18} \times 5^{12}}$$

$$4^5 \times 5^6$$

$$= 1024 \times 15\,625$$

$$= 16\,000\,000$$

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Problems with the homework?

MMS9:
PAGE 84:   **#4, 5, 6, 7, 8, 9, 11, 12, 13, and 14**
PAGE 85:   **#16, 17, 19, and 21**

#11. $\left[(-2)^3\right]^4 = (-2)^{12}$

12 negatives
= positive

$\left[(-2)^3\right]^5 = (-2)^{15}$

15 negatives
= negative

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Previous homework...
 PAGE 84: #4, 5, 6, 7, 8, 9, 11, 12, 13, and 14
 PAGE 85: #16, 17, 19, and 21

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TEST PREPARATION:

MMS9:
PAGE 86:   Study Guide
PAGE 87:   #1, 3, 4, 6, 8, and 9
PAGE 88:   #12, 13, 14, and 17
PAGE 89:   #18, 19, 20, 21, 22, 23, 24, 26, and 27

**RULE OF THUMB: When you see an exponent
law possibility, use it; otherwise, follow BEDMAS.**

Oct 11-7:51 AM