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

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

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

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

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

$= 1024 \times 15\,625$

$= 16\,000\,000$

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. $[(-2)^3]^4 = (-2)^{12}$ 12 negatives = positive

$[(-2)^3]^5 = (-2)^{15}$ 15 negatives = negative

Previous homework...

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

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.