

5/18/17 CCM6+7+

FINAL REVIEW of Units 12-14 for Retest.

1. Agenda...Study for retest Fri, last EOG set due Monday, EOG Math is Tues 5/30.
2. Get calculator and Review pages from yesterday to finish unit 14 and check.

Unit 14 Review ~ Exponents and Scientific Notation

Simplify. Your answer should contain only positive exponents.

14. $5x^0p^{-3}$

15. $\frac{x^5y^6}{x^8y^3}$

16. $\left(\frac{10x^4y^3}{6x^2y^4}\right)^{-1}$

17. What is 392,000,000 in scientific notation?

18. What is 8.765×10^{-5} in standard notation?

19. Which is bigger? Show your work to prove your choice.

a. $(3.5 \times 10^6)(2.7 \times 10^{-4})$

b. $\frac{8.8 \times 10^5}{2.5 \times 10^3}$

c. $(8.3 \times 10^5) - (6.1 \times 10^3)$

d. $(11.5 \times 10^2) + (1.2 \times 10^1)$

Unit 14 Review ~ Exponents and Scientific Notation

Simplify. Your answer should contain only positive exponents.

14. $5x^0p^{-3}$

$$5 \cdot 1 \cdot p^{-3} = \frac{5}{p^3}$$

15. $\frac{x^5y^6}{x^8y^3}$

$$\frac{x^{5-8} \cdot y^{6-3}}{x^3 \cdot y^3} = \frac{y^3}{x^3}$$

16. $\left(\frac{10x^4y^3}{6x^2y^4}\right)^{-1}$

$$\frac{6x^2y^4}{10x^4y^3} = \frac{3y}{5x^2}$$

17. What is 392,000,000 in scientific notation?

$$3.92 \times 10^8$$

18. What is 8.765×10^{-5} in standard notation?

$$0.00008765$$

19. Which is bigger? Show your work to prove your choice.

a. $(3.5 \times 10^6)(2.7 \times 10^{-4})$

$$(3.5 \times 2.7)(10^{6-4})$$

$$9.45 \times 10^2$$

$$945$$

b. $\frac{8.8 \times 10^5}{2.5 \times 10^3}$

$$(8.8 \div 2.5)(10^{5-3})$$

$$3.52 \times 10^2$$

$$352$$

c. $(8.3 \times 10^5) - (6.1 \times 10^3)$

$$.061 \times 10^5$$

$$(8.3 - .061) \times 10^5$$

$$8.239 \times 10^5$$

$$823,900$$

d. $(11.5 \times 10^2) + (1.2 \times 10^1)$

$$.12 \times 10^2$$

$$(11.5 + .12) \times 10^2$$

$$11.62 \times 10^2$$

$$1,162$$

What else do you want to review????

Working through **self-paced EOG review...**

Answer A questions.

Check. ~ **Correct? Move to next section A.**

~ **Incorrect? Go to B matching question.**