

Week 2 Pre-Algebra Assignment:

Day 1: pp. 21-22 #1-30, 42-51

Day 2: pp. 27-28 #1-33, 35-41 odd, 50-59

Day 3: pp. 34-35 #1-14, 15-33 odd, 40-49

Day 4: pp. 37-38 #13-30, 38-41

Day 5: pp. 40-41 #1-51

Notes on Assignment:

Pages 21-22:

Work to show:

#1-18: Answers only

#19-28: Write the problem, then intermediate step(s) and the answer. (See below for details.)

#29-30: Write the expression and then the answer.

#42-51: Show any work needed.

Notes for Dividing Integers:

- The quotient of two positive or two negative numbers is positive.
- The quotient of one positive and one negative number is negative.

#19-28: When you work these problems, write the problem, then do the first calculation (working left to right) and write that down. Then do the final calculation and write the answer.

Example (problem #19)

$$\begin{aligned} & -24 \div (-3) \div (-2) \\ & \quad 8 \div (-2) \\ & \quad \quad -4 \end{aligned}$$

#22: Calculate the numerator first, and then do the division.

#24: Don't be tempted to do the 2 multiplications first and then divide. You must work left to right. There are 3 separate calculations to do.

#25-27: Always do what is in () first.

Pages 27-28:

Work to show:

#1-33: Answers only

#35-41: Write the problem, then the simplified exponents, then the answer.

#50-55: Write the problem and the intermediate steps

#56-59: Write the expression and then the answer.

#9: To change the sign on an exponent, “kick it” to the other part of the fraction.

#18: To multiply when the bases are the same, add the exponents.

#23: When raising an exponent to an exponent, multiply the exponents.

#24: When dividing and the bases are the same, subtract the top exponent minus the bottom exponent.

#37: Remember that the exponent only goes on the number, and not the sign, unless there are parentheses.

Pages 34-35:

Work to show:

#1-33: Write the problem and do one calculation per line.

#40-49: Show any work needed.

All problems: **The Order of Operations**

1. Grouping Symbols (), [], | |, $\sqrt{\quad}$, division bar
2. Simplify Exponents
3. Multiply or Divide (left to right)
4. Add or Subtract (left to right)

Example (problem #28)

$$\begin{aligned}2^5 - (6 + 8 \div 4) + 8^2 \\2^5 - (6 + 2) + 8^2 \\2^5 - (8) + 8^2 \\32 - (8) + 8^2 \\32 - (8) + 64 \\24 + 64 \\88\end{aligned}$$

Pages 37-38:

Work to show:

#13-30: Answers only

#38-41: Write the problem and do one calculation per line.

All problems: Scientific Notation

- When multiplying by 10 to a positive exponent, move the decimal point to the right.
- When multiplying by 10 to a negative exponent, move the decimal point to the left.

Pages 40-41:

Chapter Review – no notes

Work to show:

All Problems: Show work as needed.