Ch.1-Real Numbers

By the end of the unit, it is expected that you will:	☺ EXCELLENT	😐 LOOK OVER	☹ NO CLUE

B1. Demonstrate an understanding of factors of whole numbers by determining the:

- prime factors
- greatest common factor
- least common multiple
- square root
- cube root

QUESTIONS:

1. A cube has a volume of 216 cm^3. Determine the length of each side of the cube.

2. Which two numbers have the following properties?
• Their GCF is 12.
• Their LCM is 72.
A. 2 and 3
B. 24 and 36
C. 48 and 72
D. 72 and 864

B2. Demonstrate an understanding of irrational numbers by:

- representing, identifying, and simplifying irrational numbers
- ordering irrational numbers

QUESTIONS:

1. $\left(-3\sqrt{12}\right)\left(-2\sqrt{18}\right)$

2.

Which of the following number lines best represents the placement of X, Y, Z, given:

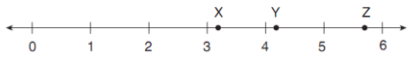
X = $2\sqrt{5}$

Y = cube root of 68

Z = $\sqrt[4]{2}$

A.

B.

C.


D.

B3. Demonstrate an understanding of powers with integral and rational exponents.

QUESTIONS:

1. Simplify $16^{\frac{-3}{4}}$

2.

Simplify: $\left(\frac{25x^a}{125x^3}\right)^3$

A. $\frac{x^{3a-9}}{125}$

B. $\frac{x^{a-3}}{5}$

C. $125x^{3a-9}$

D. $\frac{x^{27a}}{5}$

HOMEWORK

Textbook Section / Pages	**MANDATORY**	**OPTIONAL**
1.1 / 6-8	1-4,5odd	5even
1.2 / 16-21	1,2-5odd,6,7-10ace,12,15,19	2-5even,7-10bdf
1.3 / 26-28	1-4odd,5,7-9	1-4even,6
1.4 / 31-34	1,2,3odd,4acf,7odd,8ac	3even,4bde,7even
1.5 /42-49	1,2,3-8odd	3-8even
1.6 / 52-57	1,2odd,3,4-10odd,11,12,15	2even,4-10even,13,14
REVIEW /	PRACTICE TEST	1.7 /p.58 #1, 3a, 4a, 5e, 6abfg, 8dg, 9adhiko, 10abefgi, 11adeh