

STUDY GUIDE FOR FIRST QUARTER EXAM

The topics on the exam are listed on the left side.
Create examples on the right side.
Use the information to study for your exam.
Exam dates: Group A, B - Thursday
Group C, D, and E will be on Friday.

TOPICS

1. EXPONENTS

- evaluate
- with variables

EXAMPLES

$$3^4 \leftarrow \text{exponent}$$

→ solve $3 \cdot 3 \cdot 3 \cdot 3 = 81$

$$m^3 \quad m=2$$

$$2^3 = 2 \cdot 2 \cdot 2 = 8$$

2. PROPERTIES

- commutative
- associative
- identity

addition

multiplication

- distributive

$$3 + 4 = 4 + 3$$

hint: ()

$$3 + (4 + 5) = (3 + 4) + 5$$

$$3 + 0 = 3$$

$$3 \cdot 1 = 3$$

$$3(2+3) = (3 \cdot 2) + (3 \cdot 3)$$

3. scientific notation

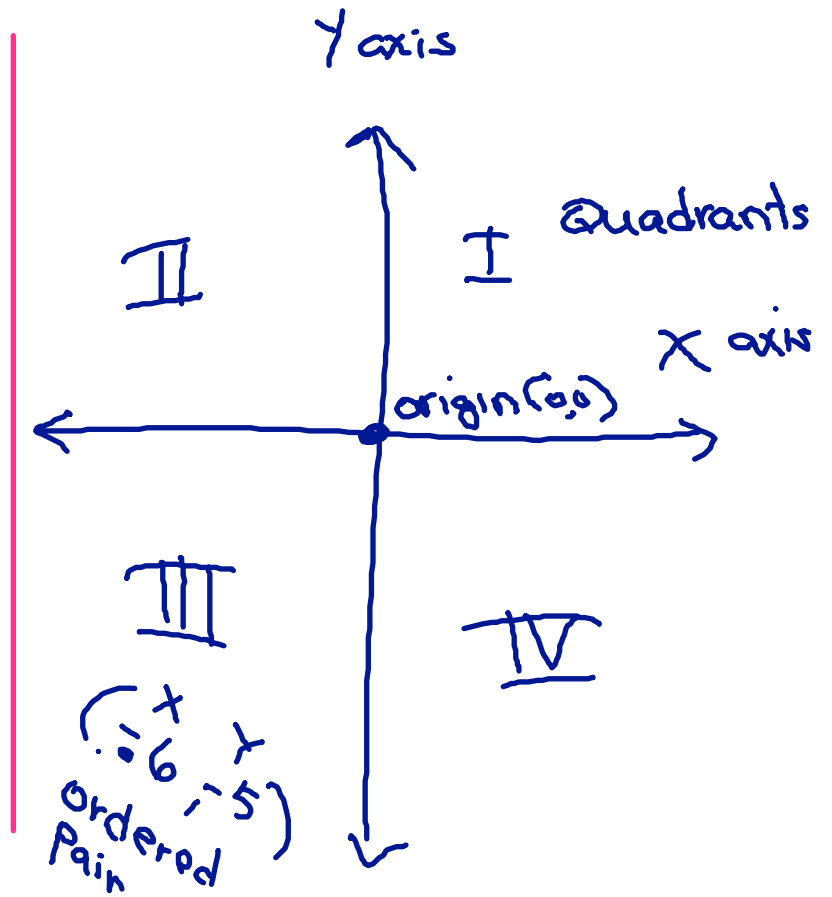
- scientific form

- standard form


$$3.62 \times 10^3 =$$

$$3,620$$

4. Coordinate Plane



5. Integers

• absolute value

• comparing

• ordering

• adding

• subtracting

• multiplying / dividing

positive and negative #'s

$| -3 |$ answer is always positive

$-6 < 4 > < =$

(use a number line)

check least to greatest or greatest to least

$+3 + -4$ I have \$⁺ and I owe \$⁻

KCC keep change change

If signs are same = +
Signs are diff = -

6. evaluate expressions
(solve)

$$4rp \quad r=2 \quad p=3$$

$$4 \cdot 2 \cdot 3$$

$$8 \cdot 3$$

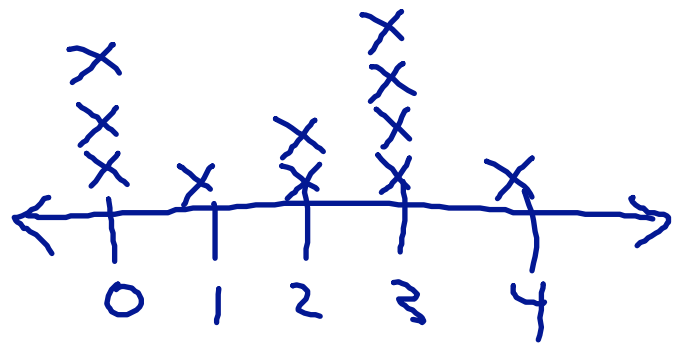
$$24$$

tifi

7. Frequency Tables

Topic	Tally	Frequency
Blue	HHH	5
Red		3
Green		1

8. Line Plot



0, 0, 0, 1, 2, 2, 3, 3, 3, 3, 4

9. Central Tendencies

- mean
- median
- mode
- range

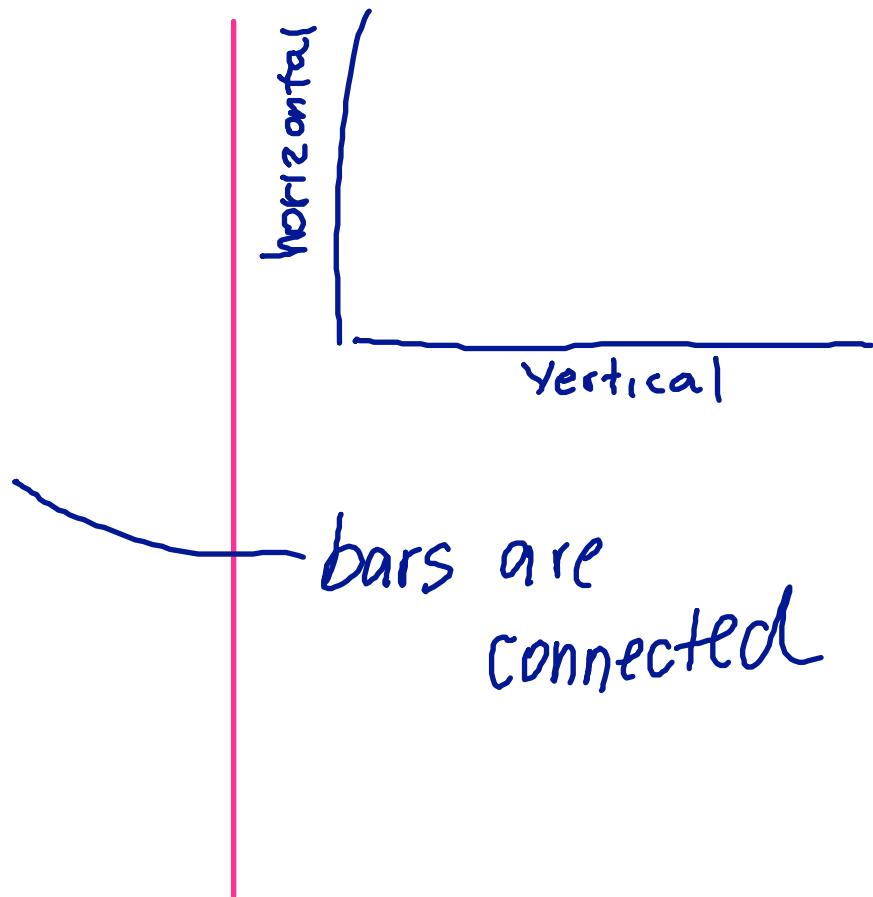
add, then divide
middle
most
high - low

10. Graphs

- bar graph

vertical axis
horizontal axis

- histogram



11. stem and leaf plot

- stem
- leaves
- key

28, 13, 15, 22, 25, 31, 38

Stem	leaves	key
1	35	3 1=31
2	258	
3	18	

Leaf can only be one number

Study