JTB320 Midterm 1 Review

Quiz6 4)(b) (4°.84)322 = (2°)8 (2°)4(2°)2 = 21° 21° 21° = 2°°

3)
$$39(41) = 40(40) - 1$$

 $49(51) = 50(50) - 1$
 $59(61) = 60(60) - 1$?
 $69(71) = 70(70) - 1$?
 $(n-1)(n+1) = n^2 - 1$
 $39(41)$
 $= (40-1)(40+1)$
 $= 40(40) + 40(1) - 1$
 $= 40(40) - 1$

Discussion of Zero

DAddition: 0 is the additive identity a+0=0+a=a

- 2) Subtraction: a-0=a but 0-a+a
- 3) Multiplication:

 Zero-Property of Mult.

 If ab=0, then a=0 or b=0 must be true.
- 1 Division

O dailed by any nonzero # is 0

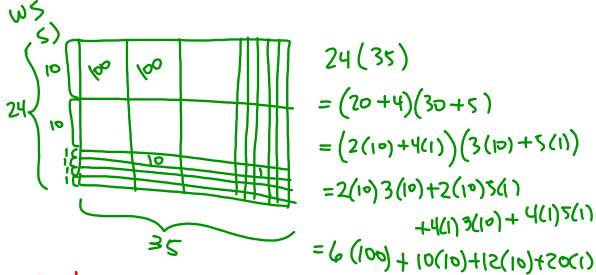
3 is unde fined

because 0.? +3.

(3) O is underfined be cause "zero divided by any # is supposed to be zero" and "any # divided by itself is supposed to be one."

because 0=0? where? could be literally anything Exprenents: $a^{\circ}=1$ true iff $a\neq 0$.

D'unde fined



() have \$5 ; want 5 down

1,20/dozun

W sale, \$0.95/down

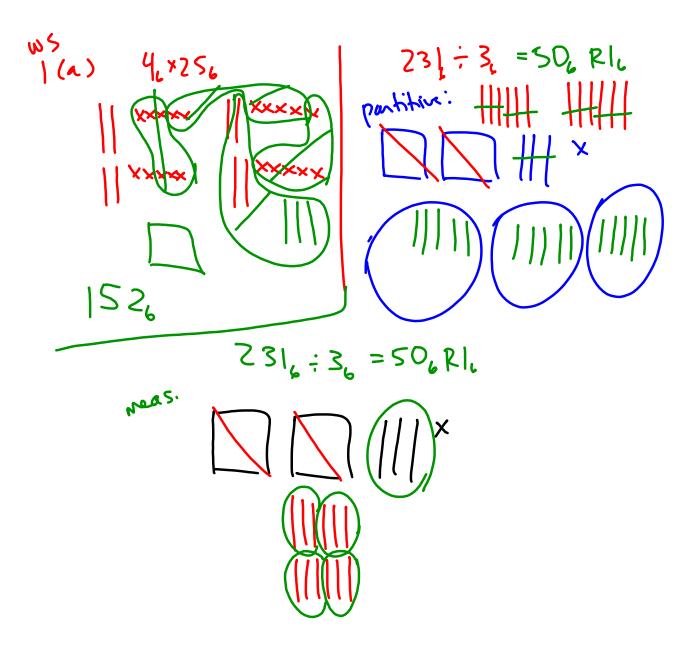
5 dozen 5(0.95)= \$4.75

10)
$$|70 \div 24| = |20 \div (4.6)| = \frac{120}{4.6} \cdot \frac{(po)}{4} \cdot (\frac{1}{4}) \cdot (\frac{1}{$$

2167 = 341 = 6 341

2167 - 341 =6.3548

341(6)=2046=2167-2046=121



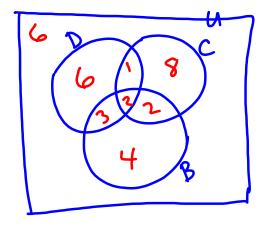
NS 30ph

31419 in Roman Minerals.

XXX MCDXIX

40 pts

10 cat, no dog
16 no pets
13 cat and dog
14 bord only
12 all 3 pets
16 bird, no dog
15 dog and bird
112 dog



60 pts 1

6 teams A,B,C,D,E,F

each plays other twia 2(15)=30 games

if they only played once: 5+4+3+2+1 =15