

NAME: \_\_\_\_\_

NUMBER: \_\_\_\_\_

QUIZ over Section 6 in the 'CAT' book; 20 points.

1. Get names for zero that use each of the following numbers:  
(2 pts) (1 pt) 3

(1 pt)  $-1.5$

2. Get names for '1' that use each of the following numbers:  
(2 pts) (1 pt) 3

(1 pt)  $-1.5$

3. (2 pts) The sentence ' $a = b = c$ ' is a shorthand—for what?  
(3 pts)

(1 pt) Decide if the sentence below is true, false, or sometimes true/sometimes false:

$1 + (2 + 4) + 5 = 1 + 6 = 7 + 5 = 12$  \_\_\_\_\_

4. Give two names for the number 1 that are a consequence of the following fact:  
(2 pts)

1 foot = 12 inches

5. (0.5 pts each) Classify each entry as a mathematical expression (EXP), or a mathematical sentence (SEN):  
(5 pts)

(a)  $3 \cdot 4 + 2 \cdot 5$  \_\_\_\_\_

(b)  $3 \cdot 4 + 2 \cdot 5 = 22$  \_\_\_\_\_

(c)  $0 + t = t$  \_\_\_\_\_

(d)  $1 \cdot x = x$  \_\_\_\_\_

(e)  $\frac{12 \text{ inches}}{1 \text{ foot}}$  \_\_\_\_\_

(f)  $\frac{12 \text{ inches}}{1 \text{ foot}} = \frac{1 \text{ foot}}{12 \text{ inches}} = 1$  \_\_\_\_\_

Now, go back and classify any SENTENCE as: always true (T); always false (F); or sometimes true/sometimes false (ST/SF).

6. Perform the indicated conversion. Be sure to use a correct format for simplifying an expression!  
(3 pts) convert 2340 seconds to hours

7. (1 pt) What is the reciprocal of 7?  
(3 pts)

(2 pts) In any fraction  $\frac{N}{D}$ ,  $N$  is called the \_\_\_\_\_ and  $D$  is called the \_\_\_\_\_.