

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 _____.