

Math 085 - Quiz 1

January 30, 2013

Name key

Score _____

Show all your work to receive full credit. Supply explanations when necessary.
NO CALCULATORS ARE ALLOWED ON THIS QUIZ!

1. (1 point) Which of these is not defined and why?

$0 \div 17$, $\frac{8}{0}$, $\frac{0}{2}$, $1 \div 2$, $\frac{8}{1}$

$8 \div 0 = \square$ ONLY IF $\square \times 0 = 8$

↑ THERE IS NO SUCH NUMBER.

2. (1 point) Use the distributive property to fill in the blank.

$5 \cdot (3 + 9) = 15 + \underline{45}$
 $5 \cdot 9 = 45$

3. (1 point) Compute 74×69 .

$$\begin{array}{r} 74 \\ \times 69 \\ \hline 630 \\ 4200 \\ \hline 5106 \end{array}$$

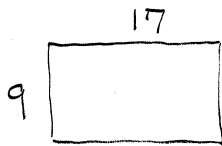
5106

4. (1 point) Find the remainder when 773 is divided by 9.

$$\begin{array}{r} 85 \text{ r } 8 \\ 9 \overline{) 773} \\ \underline{72} \\ 53 \\ \underline{45} \\ 8 \end{array}$$

REMAINDER IS 8

5. (1 point) A bedroom measures 9 ft by 17 ft. Find the area of the room.



$9 \times 17 = 9(10+7) = 90+63 = \underline{153 \text{ FT}^2}$

6. (1 point ex cred) Joe divided 5684 by 13 and got a remainder of 17. Without doing any work, explain why Joe must be wrong.

THE REMAINDER MUST BE LESS THAN THE DIVISOR! 17 IS NOT LESS THAN 13.