

Math 085 - Quiz 2

August 27, 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) Write a complete sentence that explains why $5 \div 0$ is not defined.

$$5 \div 0 = \square \Leftrightarrow \square \times 0 = 5$$

There is no number that when multiplied by zero gives 5.

2. (1 point) Compute $47394 \div 7$.

$$\begin{array}{r} 6770 \text{ r } 4 \\ 7 \overline{) 47394} \\ \underline{42} \\ 53 \\ \underline{49} \\ 49 \\ \underline{49} \\ 04 \\ \underline{00} \\ 04 \\ \underline{00} \\ 04 \\ \underline{00} \\ 04 \\ \underline{00} \\ 04 \end{array}$$

$$\boxed{6770 \text{ r } 4}$$

3. (1 point) Show a way to estimate the sum: $543 + 629 + 660 + 575 + 591$.

$\underbrace{543 + 629 + 660 + 575 + 591}_{\text{All are close to } 600}$

$$\text{Sum} \approx 5 \times 600 = 3000$$

4. (1 point) Find the area of a poster that measures 23 in by 37 in. Make sure your final answer has the correct units.

$$\begin{array}{r} 23 \\ \times 37 \\ \hline 161 \\ 700 \\ \hline 851 \end{array}$$

$$\boxed{851 \text{ in}^2}$$

5. (1 point) Use the distributive property to rewrite $100 \cdot (34 + 20)$.

$$100 \cdot 34 + 100 \cdot 20$$

$$= \boxed{3400 + 2000 = 5400}$$