

# Quiz 3A, MTH 2010 - No Calculators

Dr. Graham-Squire, Fall 2014

Name: \_\_\_\_\_

1. (2 points) (a) Multiply 
$$\begin{array}{r} 1.37 \\ \times 4.8 \\ \hline \end{array}$$

(b) Explain how you can use estimation to figure out the appropriate place to put the decimal.

2. (3 points) Given that 10 cm is approximately equal to 4 inches, which of the following expressions models a way to find approximately how many inches are equivalent to 350 cm?

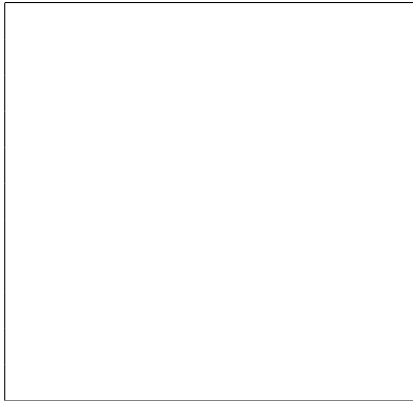
(A)  $350 \times \left(\frac{10}{4}\right)$

(B)  $350 \times \left(\frac{4}{10}\right)$

(C)  $(10 - 4) \times 350$

(D)  $(350 - 10) \times 4$

3. (2 points)  $\frac{2}{3}$  of the class has strep throat.  $\frac{4}{7}$  of the students with strep are wearing cute sneakers. What fraction of the class has both strep *and* cute sneakers? Calculate the answer and use the square below to make a diagram to represent the fraction calculation.



4. (3 points) Use the expression below to answer the question that follows.

$$3.2 \times 10^5 + 1.6 \times 10^2$$

Which of the following is closest to the expression above? Show your work!

- (a) Fifty million
- (b) Five hundred thousand
- (c) Thirty million
- (d) Three hundred thousand