

Math 70
Exam 1
January 28th, 2011

Name: _____

1. Your exam contains 7 questions and 4 pages; Please make sure you have a complete exam.
2. The entire exam is worth 100 points. Point values vary and these are indicated on each problem. You have 50 minutes for this exam.
3. Make sure to **ALWAYS SHOW YOUR WORK**; you will not receive partial credit unless all work is shown. If in doubt, ask for clarification.
4. Simplify your answers as much as possible.
5. Put a box around your final answer where applicable.
6. If you need extra space, attach a sheet to the back of the exam and clearly indicate this.
7. Be sure to **check your answers!** (especially your negative signs)

Problem	Total Points	Score
1	28	
2	8	
3	7	
4	30	
5	9	
6	9	
7	9	
Total	100	

1. (28 pts.) Evaluate the following. Simplify your answers as much as possible.

(a) (5 pts.) $\frac{4}{5} + 4\frac{7}{10}$

(e) (5 pts.) $-\frac{5}{6} + \frac{1}{4}$

(b) (4 pts.) $11 + (-3)$

(d) (5 pts.) $-8 - (-3)$

(c) (4 pts.) $-13 - 7$

(f) (5 pts.) $1.5 - (-12.34)$

2. (8 pts.) Suppose the distance between two places is 9 miles.

What is that same distance in kilometers? (Use the approximation 1 mile = 1.61 km)

3. (7 pts.) How many meters are in 12500 millimeters (mm)?

4. (30 pts.) Evaluate the following. Simplify your answers as much as possible.

(a) (5 pts.) $\frac{1}{2} \div 2\frac{3}{4}$

(b) (6 pts.) $\frac{5}{3}\left(\frac{9}{20}\right)\left(\frac{1}{2}\right)$

(c) (5 pts.) $\frac{18}{\frac{6}{7}}$

(d) (5 pts.) $(3.1)(1.2)$

(e) (5 pts.) $7.26 \div 0.3$

(f) (4 pts.) $\frac{2}{3} - 0.4$

5. (9 pts.) There is an amazing sale on “I ♥ Math” t-shirts. The shirts, which are normally \$30, are now on sale for 70% off! Find the sale price of the shirts.

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6. (9 pts.) Suppose that you are fortunate enough to have a stack of 75 cookies in front of you! If 42 of the cookies are chocolate chip cookies, what percentage of the cookies are **not** chocolate chip?

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7. (9 pts.) You want to make some delicious cookies, but you don't want to make a full batch.

If one batch of cookies requires $5\frac{1}{4}$ cups of flour, how much flour is needed for two-thirds of a batch?