

**Brown Belt Warm-Up**  
**Wednesday October 11, 2006**

1. Do the operations and express the result as a fraction in lowest terms.

$$3\frac{4}{9} - 2\frac{2}{3} + 1\frac{5}{6} =$$

2. Do the operations and express the result as a fraction in lowest terms. (Hint: Simplify before multiplying by cancelling common factors. Remember?)

$$1\frac{4}{13} \times 7\frac{4}{5} \div 11\frac{1}{3} =$$

3. Simplify this fraction and then express as a decimal:

$$\frac{12}{27} =$$

4. Express the following as a fraction in simplest form: 64 m of 2 km.

5. Do the operations and express the result in decimal form.

$$8.306 + 12.45 - 3.6 =$$

$$3.85 \times 1.25 =$$

6. A fraction is half way between  $7/8$  and  $1$ . Write this fraction in its simplest form.

7. Evaluate the following:

$$(-0.3)^2 =$$

$$\sqrt[3]{-27} =$$

$$-5 + (-4) - (-12) =$$

$$-72 \div (-8) =$$

$$-[-25 \times (-4)] =$$

$$-72 \div (-8) - [-25 \times (-4)] =$$

8. Give an example of two different irrational numbers  $a$  and  $b$ , where  $a/b$  is a rational number.