## TRS 92 Homework: Unit Analysis and Foundational Skills Review

## Foundational Skills Review: Order of Operations and Percent

Because this material is Foundational Skills review, it will not be covered in class. It is expected that you will get help outside of class if you need it. You should check your answers (for this section) with the answer key posted on your instructor's website to make sure your work is correct.

You can get help with this work from the following sources:

1. Visit your instructor during office hours
2. Go to the Algebra Alcove
3. Use the following resources on the Internet:

| Order of operations: <br> Beginning: <br> http://www.khanacademy.org/video/order-of- | Adding and subtracting negative and positive <br> numbers: <br> operations?playlist=Developmental\%20Math |
| :--- | :--- |
| http://www.youtube.com/watch?v=C38B33Zyw <br> Advanced: <br> http://www.khanacademy.org/video/order-of- <br> operations-2?playlist=Developmental\%20Math | $\underline{\text { Ws\&feature=youtube gdata }}$ |

Simplify the following expressions without using a calculator. Note that fractional answers are acceptable as long as they are in lowest terms.

| 1. $\frac{4-6(3+2)}{-5}$ | $2 .-8+3 \cdot 6-4^{2}$ | $3 . \frac{3(-6)-9}{5^{2}-34}$ |
| :--- | :--- | :--- |
| $4 .-3^{2}$ | $5 .(-3)^{2}$ | $6 .-40-(-5)+(-2)(-3)$ |

Internet resources on percents:

- http://www.khanacademy.org/video/solving-percent-problems?playlist=Developmental\ Math
- http://www.khanacademy.org/video/solving-percent-problems-2?playlist=Developmental\ Math
- http://www.khanacademy.org/video/solving-percent-problems-3?playlist=Developmental\ Math

Calculators may be used on the following problems.

| 7. Write $32 \%$ as a decimal. | 8. Write $1.25 \%$ as a decimal. |
| :--- | :--- |
| 9. Write $115 \%$ as a decimal. | 12. Write 2.035 as a percent. <br> the nearest tenth. |
| 11. Find $83 \%$ of 680. | $\frac{1}{4}=$ <br> $\frac{1}{4}=$ |
| 13. 54 is $30 \%$ of what? | $\frac{1}{10}=$ |

