## Exam 1 Review

1. Usain Bolt set the world record for the 100 m in 2009 with a time of 9.58 seconds. How many miles per hour is this?

60 seconds $=1$ minute $\quad 60$ minutes $=1$ hour 0.3 meter $=1$ foot 5280 feet $=1$ mile
2. Go to Day 4 Homework \#1. Compare your answer from \#1 above to your homework's answer. Are they the same and correct? If they are not the same, determine which answer is correct.
3. Estimate $18 \%$ of 72 . Explain your estimation.
4. Go to Day 4 Homework \#6. Compare your answer from \#3 above to your homework's answer. Are they similar and correct? If they are not the same, determine which answer is correct.
5. Simplify the following expressions. Answers should have positive exponents only.
a. $a^{5} * a^{3}$
b. $\left(2 a^{2}\right)^{3}$
C. $\frac{\mathbf{5}\left(x^{2} y\right)^{3}}{\mathbf{1 0} y}$
d. $\frac{-3 x^{2}}{27 x^{2}}$
e. $\frac{\left(\mathbf{2} y^{2}\right)^{3}(y)^{3}}{\mathbf{1 0} y^{0}}$
6. Go to Day 6 Homework \#1, 2, 4, 7, 9. Compare your answers from \#5a-e above to your homework's answers. Are they the same and correct? If they are not the same, determine which answer is correct.
7. Simplify the following expressions. Answers should have positive exponents only.
a. $\frac{a^{-7} b^{2}}{4 a^{3} c^{-4}}$
b. $\left(\frac{6 x^{-1}}{y^{-3}}\right)^{2}$
8. Go to Day 7 Homework \#1a-b. Compare your answer from \#7a-b above to your homework's answers. Are they the same and correct? If they are not the same, determine which answer is correct.
9. Use the rules of exponents to simplify. Show appropriate work.

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\frac{\left(3.5 \times 10^{4}\right)\left(1.2 \times 10^{-1}\right)}{\left(2.4 \times 10^{-2}\right)}
$$

10. Go to Day 7 Homework \#5. Compare your answers from \#9 above to your homework's answer. Are they the same and correct? If they are not the same, determine which answer is correct.
11. Given the polynomial $0.9 s^{2}+0.72 s+1.25$, identify the following characteristics of this polynomial.

| Type (monomial, <br> binomial, etc.) | Leading Term | Leading <br> Coefficient | Degree | Constant |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

12. Go to Day 9 Activity \#3. Compare your answers from \#11 above to your activity's answer. Are they the same and correct? If they are not the same, determine which answer is correct.

One method for studying for an exam is to redo exercises previously done in class. It works best when you copy the original problem onto a new sheet of paper, turn the old paper over, and complete the copied problem on the new paper. You can then compare your answers and see if you are getting the same, correct answers.

Students sometimes complain that they weren't given "review problems" by their instructor, but using this method of study helps eliminate the need for review problems from the instructor and puts the responsibility for learning on the student.

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[^0]:    **Now you should go through the list of Review Topics that you think you need to work on and use this method to study them.

