Math Basics Checklist Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­­­\_\_\_\_

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| **TOPIC/PROBLEM** | ANSWER |
| **Percentage**  *A computer is on sale for $1600, which is a 20% discount off the regular price. What is the regular price?* |  |
| **Probability**  *What is the chance of rolling an even*  *number with one toss of a number cube?* |  |
| **Significant Figures**  *How many Significant Figures (Digits) in 0.000122300?* |  |
| **Exponent Rules**  32/33 *= ?* |  |
| **Scientific Notation**  *Write 0.000122300 with Scientific Notation.* |  |
| **Absolute Value**  *If and , solve* |  |

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| **TOPIC/PROBLEM** | ANSWER |
| **Logarithms**  Solve [y = log2x3 – 3] when x =1 and x=8 |  |
| **Inequalities**  *Solve |2x + 1| > 7* |  |
| **Trigonometry – Angles**  Find the value of: cos 30/sin 60/sin 45/tan 45 |  |
| **Functions**  *Write the perimeter of a square p as a function of A. [p(A)]* |  |
| **Limits**  Find the following limits:   * limx→∞(x+3) * limx→∞(1-ex)/(1+2ex) * limx→π(tan x) |  |
| **Derivatives**  Find the following derivatives:  X2  4x3  2∙x∙cos(x) |  |