

# Pre-Algebra and Algebra

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READY REFERENCE

<b>Metric System</b> 1 cm = 10 mm      1 m = 1000 mm 1 km = 1000 m      1 km = 1000 m 1 m = 1000 mm      1 km = 1000 m 1 km = 1000 m      1 km = 1000 m	<b>Equation Solving Process</b> 1. Is it an addition problem? → Change it to an addition problem. 2. Are there grouping symbols? → Do them. 3. Are there variables on the right side? → Move them to the left side. → Counterchange left side. 4. Is there a number left attached to the variable? → Use the inverse operation. 5. Is there a number attached to the variable? → Use the inverse operation.																																																																														
<b>Numbers</b> Please only consider numbers that are that can only be separated by itself and the number one. Computers use numbers greater than one that has more than two factors. Natural - numbers used for counting 1, 2, 3, 4, ... Whole - the set of natural numbers, 0, 1, 2, 3, ... Integers - sets positive or negative whole numbers, also zero. Real - includes all rational and irrational numbers, both positive and negative.	<b>General</b> a + b = c      d = distance a = width      l = length p = cost price      g = total price r = rate of return      n = number of items s = unit price      p = total price p = number of items      n = number of items p = rate (10%)      r = percent of discount d = original price      d = original price l = unit price																																																																														
<b>Number Line</b> 	<b>1.1 slope</b> m = 2/3      slope addition n = 1/3      l = 3 (opposite) p = 4      slope inverse formula q = 1      l = 1 (opposite) r = 1      p = 1 (opposite) s = 1      q = 1 (opposite)																																																																														
<b>Special Lines</b> 	<b>Other</b> general formula of quadratic quadratic formula Discriminant Formula • $b^2 - 4ac > 0$ then 2 roots A • $b^2 - 4ac = 0$ then 1 root A • $b^2 - 4ac < 0$ then 0 roots A																																																																														
<b>Rules for Integers</b> 1. When adding two numbers with the same sign, take the sum of the two numbers and keep the sign. Example: $3 + 5 = 8$ $-3 - 5 = -8$ 2. When adding two numbers with different signs, take the difference of the two numbers and use the sign of the larger number. Example: $3 + 5 = 8$ $3 - 5 = -2$ 3. When subtracting two numbers, change the subtraction problem to an addition problem by adding the opposite of the number being subtracted. Follow rules "1" and "2" to finish the problem. Example: $3 - 5 = 3 + (-5) = -2$ $3 - (-5) = 3 + 5 = 8$	<b>Table of Perfect Squares</b> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th>n</th> <th>n<sup>2</sup></th> <th>n</th> <th>n<sup>2</sup></th> <th>n</th> <th>n<sup>2</sup></th> </tr> <tr> <td>1</td> <td>1</td> <td>10</td> <td>100</td> <td>19</td> <td>361</td> </tr> <tr> <td>2</td> <td>4</td> <td>11</td> <td>121</td> <td>20</td> <td>400</td> </tr> <tr> <td>3</td> <td>9</td> <td>12</td> <td>144</td> <td>21</td> <td>441</td> </tr> <tr> <td>4</td> <td>16</td> <td>13</td> <td>169</td> <td>22</td> <td>484</td> </tr> <tr> <td>5</td> <td>25</td> <td>14</td> <td>196</td> <td>23</td> <td>529</td> </tr> <tr> <td>6</td> <td>36</td> <td>15</td> <td>225</td> <td>24</td> <td>576</td> </tr> <tr> <td>7</td> <td>49</td> <td>16</td> <td>256</td> <td>25</td> <td>625</td> </tr> <tr> <td>8</td> <td>64</td> <td>17</td> <td>289</td> <td>26</td> <td>676</td> </tr> <tr> <td>9</td> <td>81</td> <td>18</td> <td>324</td> <td>27</td> <td>729</td> </tr> <tr> <td>10</td> <td>100</td> <td>19</td> <td>361</td> <td>28</td> <td>784</td> </tr> <tr> <td>11</td> <td>121</td> <td>20</td> <td>400</td> <td>29</td> <td>841</td> </tr> <tr> <td>12</td> <td>144</td> <td>21</td> <td>441</td> <td>30</td> <td>900</td> </tr> </table>	n	n <sup>2</sup>	n	n <sup>2</sup>	n	n <sup>2</sup>	1	1	10	100	19	361	2	4	11	121	20	400	3	9	12	144	21	441	4	16	13	169	22	484	5	25	14	196	23	529	6	36	15	225	24	576	7	49	16	256	25	625	8	64	17	289	26	676	9	81	18	324	27	729	10	100	19	361	28	784	11	121	20	400	29	841	12	144	21	441	30	900
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 (Claudine Jerde)

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