
 <p>Multiply these remember numbers first then letters.  <math>d \times d = d^2</math> not <math>2d</math></p>	<p>Divide these, remember that <math>\div</math> is the same as <math>\frac{\quad}{\quad}</math>        Simplify numbers when you can</p>	 <p>Multiply the outside letter or number by the inside parts separately. This is called 'expanding'.</p>
<p>1 <math>2 \times a = 2a</math></p>	<p>Example <math>9 \times m \div 3 = \frac{3 \cancel{9} m}{1 \cancel{3}} = 3m</math></p>	<p>Example 1 <math>5(w + 10) = 5w + 50</math></p>
<p>2 <math>c \times 3 = 3c</math></p>	<p>21 <math>c \div 7 = \frac{c}{7}</math></p>	<p>Example 2 <math>3a(a - 5) = 3a^2 - 15a</math></p>
<p>3 <math>4 \times e \times 2 = 8e</math></p>	<p>22 <math>2 \times g \div 3 = \frac{2g}{3}</math></p>	<p>33 <math>4(c + 6) = 4c + 24</math></p>
<p>4 <math>2 \times f \times 5 = 10f</math></p>	<p>23 <math>\frac{5 \cancel{15} \times k}{1 \cancel{3}} = 5k</math></p>	<p>34 <math>6(m + 3) = 6m + 18</math></p>
<p>5 <math>3 \times 4 \times u = 12u</math></p>	<p>24 <math>22 \times e \div 4 = \frac{11 \cancel{22} e}{2 \cancel{4}} = \frac{11e}{2}</math></p>	<p>35 <math>5(c - 8) = 5c - 40</math></p>
<p>6 <math>8 \times h \times 2 = 16h</math></p>	<p>25 <math>7 \times b \div 7 = \frac{1 \cancel{7} b}{1 \cancel{7}} = b</math></p>	<p>36 <math>7(3d + 2) = 21d + 14</math></p>
<p>7 <math>3 \times x \times y = 3xy</math></p>	<p>26 <math>4 \times f \div 8 = \frac{1 \cancel{4} f}{2 \cancel{8}} = \frac{f}{2}</math></p>	<p>37 <math>h(h + 2) = h^2 + 2h</math></p>
<p>8 <math>7 \times t \times k = 7tk</math></p>	<p>27 <math>18 \times a \div 6 = \frac{3 \cancel{18} a}{1 \cancel{6}} = 3a</math></p>	<p>38 <math>e(k + e) = ek + e^2</math></p>
<p>9 <math>g \times 2 \times g = 2g^2</math></p>	<p>28 <math>\frac{5 \cancel{45} \times y}{1 \cancel{9}} = 5y</math></p>	<p>39 <math>5n(n - 11) = 5n^2 - 55n</math></p>
<p>10 <math>a \times b \times c = abc</math></p>	<p>29 <math>50d \div 10 = \frac{5 \cancel{50} d}{1 \cancel{10}} = 5d</math></p>	<p>40 <math>3x(x - 3) = 3x^2 - 9x</math></p>
<p>11 <math>q \times u \times q \times 7 = 7uq^2</math></p>	<p>30 <math>9e \div 6 = \frac{3 \cancel{9} e}{2 \cancel{6}} = \frac{3e}{2}</math></p>	<p>41 <math>k(m + d) = km + kd</math></p>
<p>12 <math>n \times 5 \times 3 \times n = 15n^2</math></p>	<p>31 <math>\frac{7 \cancel{35} y}{2 \cancel{10}} = \frac{7y}{2}</math></p>	<p>42 <math>3w(a + 2) = 3wa + 6w</math></p>
<p>13 <math>x \times 4 \times t = 4xt</math></p>	<p>32 <math>48a \div 3 = \frac{16 \cancel{48} a}{1 \cancel{3}} = 16a</math></p>	<p>43 <math>2q(3q - 2) = 6q^2 - 4q</math></p>
<p>14 <math>10 \times z \times q = 10zq</math></p>		<p>44 <math>8e(7e + 3) = 56e^2 + 24e</math></p>
<p>15 <math>h \times 3 \times b \times 4 = 12hb</math></p>		<p>45 <math>2m(e + 2m) = 2me + 4m^2</math></p>
<p>16 <math>6 \times n \times n \times b = 6n^2b</math></p>		<p>46 <math>9w(w - 4) = 9w^2 - 36w</math></p>
<p>17 <math>e \times e \times t \times t = e^2t^2</math></p>		<p>47 <math>a^2(b + c) = a^2b + a^2c</math></p>
<p>18 <math>d \times a \times d \times 3 = 3d^2a</math></p>		<p>48 <math>x^2(d^2 + t^2) = x^2d^2 + x^2t^2</math></p>
<p>19 <math>9 \times 6 \times t \times t = 54t^2</math></p>		<p>49 <math>3u(2 - t^2) = 6u - 3ut^2</math></p>
<p>20 <math>v \times v \times 3 \times y = 3v^2y</math></p>		