

# Old Bank Primary Academy



## Chapter 4 – Year Three

	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
<b>Year 3</b> (1-5, 9, 10 x tables)	Revise Y1-2 Strategies.  <b>Add 1000</b>  <b>Subtract 1000</b>	Revise Y1-2 Strategies.  Add or subtract 1000  <b>Add 999</b>  <b>Subtract 999</b>	Revise Y1-2 Strategies.  Add or subtract 1000  Add or subtract 999  <b>Multiply by 100</b>  <b>Divide by 100</b>  <b>Multiply by 1000</b>  <b>Divide by 1000</b>	Revise Y1-2 Strategies.  Add or subtract 1000  Add or subtract 999  X or ÷ by 100 or 1000  <b>Multiply by 9</b>  <b>Multiply by 99</b>	Revise Y1-2 Strategies.  Add or subtract 1000  Add or subtract 999  X or ÷ by 100 or 1000  Multiply by 9 or 99  <b>Multiply by 11</b>	Revise Y1-2 Strategies.  Add or subtract 1000  Add or subtract 999  X or ÷ by 100 or 1000  Multiply by 9, 11 or 99  <b>Divide by 4</b>

- All **green** concepts are new learning for the half term.
- All **black** concepts are revision of prior learning.
- There are **12** key concepts to learn and understand during Year Three.
- In addition, the **3, 4 and 9 x Tables will be learned in and out of order and recited as number sentences.**
- During Year Three, **all Key Stage 1 concepts will be revised** and consolidated on a half-termly basis.

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Add 1,000 to any number	<ul style="list-style-type: none"><li>• Increase your thousands by 1.</li><li>• Leave the 1s, 10s and 100s alone.</li></ul>	<ul style="list-style-type: none"><li>• <math>6,530 + 1,000 = ?</math></li><li>• Add 1,000 to the 6,000</li><li>• This leaves 7 thousands</li><li>• <math>6,530 + 1,000 = 7,530</math></li></ul>

$231 + 1,000$	$540 + 1,000$	$734 + 1,000$
$85 + 1,000$	$463 + 1,000$	$452 + 1,000$
$706 + 1,000$	$637 + 1,000$	$178 + 1,000$
$92.2 + 1000$	$195 + 1,000$	$99 + 1,000$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Subtract 1,000 from any number	<ul style="list-style-type: none"><li>• Reduce your thousands by 1.</li><li>• Leave the 1s, 10s and 100s alone.</li></ul>	<ul style="list-style-type: none"><li>• <math>6,530 - 1,000 = ?</math></li><li>• Take 1,000 from the 6,000</li><li>• This leaves 5 thousands</li><li>• <math>6,530 - 1,000 = 5,530</math></li></ul>

$6,231 - 1,000$	$5,240 - 1,000$	$7,234 - 1,000$
$8,925 - 1,000$	$1,067 - 1,000$	$1,960 - 1,000$
$1,706 - 1,000$	$5,637 - 1,000$	$8,178 - 1,000$
$1,073 - 1,000$	$1,000 - 1,000$	$9,999 - 1,000$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Add 999 to any number	<ul style="list-style-type: none"><li>• Add 1,000 to your starting number.</li><li>• Subtract 1.</li></ul>	<ul style="list-style-type: none"><li>• <math>13 + 999 = ?</math></li><li>• <math>13 + 1,000 = 1,013</math></li><li>• <math>1,013 - 1 = 1,012</math></li><li>• So, <math>13 + 999 = 1,012</math></li></ul>

$230 + 999$	$24 + 999$	$101 + 999$
$82 + 999$	$46 + 999$	$345 + 999$
$707 + 999$	$637 + 999$	$178 + 999$
$92.6 + 999$	$195 + 999$	$999 + 999$



<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Subtract 999 from any number	<ul style="list-style-type: none"><li>• Subtract 1,000 from your starting number.</li><li>• Add 1 back.</li></ul>	<ul style="list-style-type: none"><li>• <math>1,300 - 999 = ?</math></li><li>• <math>1,300 - 1,000 = 300</math></li><li>• <math>300 + 1 = 301</math></li><li>• So <math>1,300 - 999 = 301</math></li></ul>

2,230 - 999	1,999 - 999	1,001 - 999
382 - 999	946 - 999	3,458 - 999
1,707 - 999	8,637 - 999	1,782 - 999
1,010 - 999	6,195 - 999	999 - 999

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 100	<ul style="list-style-type: none"><li>• All digits move 2 places left.</li><li>• Never move the decimal.</li><li>• We never 'add two zeros'.</li></ul>	<ul style="list-style-type: none"><li>• <math>125 \times 100 = ?</math></li><li>• All digits move 2 places left</li><li>• <math>125 \times 100 = 12,500</math></li></ul>

13 x 100	25 x 100	41 x 100
24 x 100	32 x 100	29 x 100
287 x 100	83 x 100	66 x 100
22.5 x 100	103 x 100	110 x 100

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Divide any number by 100	<ul style="list-style-type: none"><li>• All digits move 2 places right.</li><li>• We never 'take away two zeros'.</li></ul>	<ul style="list-style-type: none"><li>• <math>500 \div 100 = ?</math></li><li>• All digits move 2 places right</li><li>• <math>500 \div 100 = 5</math></li></ul>

$1,300 \div 100$	$2,400 \div 100$	$1,200 \div 100$
$4,400 \div 100$	$6,800 \div 100$	$3,100 \div 100$
$1,900 \div 100$	$2,000 \div 100$	$4,500 \div 100$
$7,800 \div 100$	$100 \div 100$	$1,000 \div 100$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 1,000	<ul style="list-style-type: none"><li>• All digits move 3 places left.</li><li>• Never move the decimal.</li><li>• We never 'add three zeros'.</li></ul>	<ul style="list-style-type: none"><li>• <math>125 \times 1,000 = ?</math></li><li>• All digits move 3 places left</li><li>• <math>125 \times 1,000 = 125,000</math></li></ul>

13 x 1,000	25 x 1,000	41 x 1,000
24 x 1,000	32 x 1,000	29 x 1,000
287 x 1,000	83 x 1,000	66 x 1,000
22.5 x 1000	103 x 1,000	110 x 1,000



<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Divide any number by 1,000	<ul style="list-style-type: none"><li>• All digits move 3 places right.</li><li>• We never 'take away three zeros'.</li></ul>	<ul style="list-style-type: none"><li>• <math>5,000 \div 1,000 = ?</math></li><li>• All digits move 3 places right</li><li>• <math>5,000 \div 1,000 = 5</math></li></ul>

$13,000 \div 1000$	$2,000 \div 1000$	$1200 \div 1000$
$4,000 \div 1,000$	$16,000 \div 1000$	$3,000 \div 1,000$
$1,000 \div 1,000$	$2,000 \div 1000$	$8,000 \div 1,000$
$7,500 \div 1000$	$100 \div 1000$	$4,500 \div 1,000$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 9	<ul style="list-style-type: none"><li>• Use the Smart Strategy for multiplying by 10.</li><li>• Subtract your original number.</li></ul>	<ul style="list-style-type: none"><li>• <math>14 \times 9 = ?</math></li><li>• <math>14 \times 10 = 140</math></li><li>• <math>140 - 14 = 126</math></li><li>• <math>14 \times 9 = 126</math></li></ul>

$13 \times 9$	$25 \times 9$	$41 \times 9$
$24 \times 9$	$32 \times 9$	$29 \times 9$
$287 \times 9$	$83 \times 9$	$66 \times 9$
$22.5 \times 9$	$103 \times 9$	$110 \times 9$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 99	<ul style="list-style-type: none"><li>• Use the Smart Strategy for multiplying by 100.</li><li>• Subtract your original number.</li></ul>	<ul style="list-style-type: none"><li>• <math>14 \times 99 = ?</math></li><li>• <math>14 \times 100 = 1,400</math></li><li>• <math>1,400 - 14 = 1,386</math></li><li>• <math>14 \times 99 = 1,386</math></li></ul>

$13 \times 99$	$25 \times 99$	$41 \times 99$
$24 \times 99$	$32 \times 99$	$29 \times 99$
$287 \times 99$	$83 \times 99$	$66 \times 99$
$22.5 \times 99$	$103 \times 99$	$110 \times 99$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 11	<ul style="list-style-type: none"><li>• Use the Smart Strategy for multiplying by 10.</li><li>• Add your original number.</li></ul>	<ul style="list-style-type: none"><li>• <math>14 \times 11 = ?</math></li><li>• <math>14 \times 10 = 140</math></li><li>• <math>140 + 14 = 154</math></li><li>• <math>14 \times 11 = 154</math></li></ul>

13 x 11	25 x 11	41 x 11
24 x 11	32 x 11	29 x 11
287 x 11	83 x 11	66 x 11
22.5 x 11	103 x 11	110 x 11



<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Divide any number by 4	<ul style="list-style-type: none"><li>• Halve your original, or divide it by 2.</li><li>• Halve your answer.</li></ul>	<ul style="list-style-type: none"><li>• <math>500 \div 4 = ?</math></li><li>• <math>500 \div 2 = 250</math></li><li>• <math>250 \div 2 = 125</math></li><li>• <math>500 \div 4 = 125</math></li></ul>

$1,300 \div 4$	$2,400 \div 4$	$1,200 \div 4$
$4,400 \div 4$	$6,800 \div 4$	$3,100 \div 4$
$1,900 \div 4$	$2,000 \div 4$	$4,500 \div 4$
$7,800 \div 4$	$100 \div 4$	$1,000 \div 4$

## Chapter 5 – Year Four

	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
<b>Year 4</b>  (1 - 12 x tables, 5-second recall)	Revise Y1-2 Strategies. Revise Y3 Strategies.  Add 9.9 to any number  Add 0.9 to any number  Subtract 9.9  Subtract 0.9	Revise Y1-2 Strategies. Revise Y3 Strategies.  Add or subtract 9.9  Add or subtract 0.9  Adding fractions same denominator  Subtracting fractions same denominator	Revise Y1-2 Strategies. Revise Y3 Strategies.  Add / subtract 9.9 or 0.9  Adding or subtracting fractions same denom.  Find 5%  Find 10%  Find 20%	As per Spring 1  Multiply by 999  Multiply by 20  Multiply by 21  Multiply by 19	As per Spring 2  Divide any number by 5  Divide any number by 8  Find 1% of any number	As per Summer 1  Multiply by 15  Multiply by 25

- All **green** concepts are new learning for the half term.
- All **black** concepts are revision of prior learning.
- There are **18** key concepts to learn and understand during Year Four.
- In addition, the **6, 7, 8, 11 and 12 x Tables will be learned in and out of order and recited as number sentences.**
- During Year Four, **all Key Stage 1 and Year 3 concepts will be revised** and consolidated on a half-termly basis.

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Add 9.9 to any number	<ul style="list-style-type: none"><li>• Add 10 to your starting number.</li><li>• Subtract 0.1.</li></ul>	<ul style="list-style-type: none"><li>• <math>630 + 9.9 = ?</math></li><li>• <math>630 + 10 = 640</math></li><li>• <math>640 - 0.1 = 639.9</math></li><li>• So, <math>630 + 9.9 = 639.9</math></li></ul>

$53 + 9.9$	$4 + 9.9$	$675 + 9.9$
$535 + 9.9$	$234 + 9.9$	$572 + 9.9$
$3,522 + 9.9$	$1,095 + 9.9$	$3,875 + 9.9$
$18.8 + 9.9$	$0.4 + 9.9$	$0.87 + 9.9$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Subtract 9.9 from any number	<ul style="list-style-type: none"><li>• Subtract 10 from your starting number.</li><li>• Add 0.1 back.</li></ul>	<ul style="list-style-type: none"><li>• <math>286 - 9.9 = ?</math></li><li>• <math>286 - 10 = 276</math></li><li>• <math>276 + 0.1 = 276.1</math></li><li>• <math>286 - 9.9 = 276.1</math></li></ul>

53 - 9.9	24 - 9.9	675 - 9.9
535 - 9.9	234 - 9.9	572 - 9.9
3,522 - 9.9	1,095 - 9.9	3,875 - 9.9
18.9 - 9.9	19.4 - 9.9	487.2 - 9.9

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Add 0.9 to any number	<ul style="list-style-type: none"><li>• Add 1 to your starting number.</li><li>• Subtract 0.1.</li></ul>	<ul style="list-style-type: none"><li>• <math>630 + 0.9 = ?</math></li><li>• <math>630 + 1 = 631</math></li><li>• <math>631 - 0.1 = 630.9</math></li><li>• So, <math>630 + 0.9 = 630.9</math></li></ul>



$53 + 0.9$	$4 + 0.9$	$675 + 0.9$
$535 + 0.9$	$234 + 0.9$	$572 + 0.9$
$3,522 + 0.9$	$1,095 + 0.9$	$3,875 + 0.9$
$18.8 + 0.9$	$0.4 + 0.9$	$0.87 + 0.9$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Subtract 0.9 from any number	<ul style="list-style-type: none"><li>• Subtract 1 from your starting number.</li><li>• Add 0.1 back.</li></ul>	<ul style="list-style-type: none"><li>• <math>16.3 - 0.9 = ?</math></li><li>• <math>16.3 - 1 = 15.3</math></li><li>• <math>15.3 + 0.1 = 15.4</math></li><li>• So, <math>16.3 - 0.9 = 15.4</math></li></ul>

53 - 0.9	4 - 0.9	675 - 0.9
535 - 0.9	234 - 0.9	572 - 0.9
3,522 - 0.9	1,095 - 0.9	3,875 - 0.9
18.8 - 0.9	1.4 - 0.9	3.87 - 0.9

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Adding fractions together with the same denominator	<ul style="list-style-type: none"><li>• Know that a numerator is the 'top value' in a fraction.</li><li>• Add together the numerators</li><li>• Leave the denominators alone!</li></ul>	<ul style="list-style-type: none"><li>• <math>4/7 + 2/7 = ?</math></li><li>• <math>4 + 2 = 6</math></li><li>• So, <math>4/7 + 2/7 = 6/7</math></li></ul>

$4/7 + 2/7$	$4/9 + 2/9$	$4/6 + 1/6$
$2/8 + 5/8$	$2/10 + 5/10$	$2/7 + 3/7$
$2/5 + 1/5$	$2/11 + 1/11$	$1/4 + 1/4$
$2/6 + 4/6$	$3/5 + 3/5$	$9/5 + 4/5$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Subtracting fractions with the same denominator	<ul style="list-style-type: none"><li>• Know that a numerator is the 'top value' in a fraction.</li><li>• Subtract the smaller numerator from the larger.</li><li>• Leave the denominators alone!</li></ul>	<ul style="list-style-type: none"><li>• <math>5/7 - 2/7 = ?</math></li><li>• <math>5 - 2 = 3</math></li><li>• So, <math>5/7 - 2/7 = 3/7</math></li></ul>

$4/7 - 2/7$	$4/9 - 2/9$	$4/6 - 1/6$
$7/8 - 5/8$	$9/10 - 5/10$	$7/7 - 3/7$
$2/5 - 1/5$	$2/11 - 1/11$	$3/4 - 2/5$
$5/6 - 5/6$	$3/5 - 3/5$	$9/15 - 4/15$

Can any of your answers be simplified?

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Find 10% of any number	<ul style="list-style-type: none"><li>● Use our Smart Strategy for dividing any number by 10.</li><li>● Know that 10% = 1/10 and we find this by dividing by 10.</li></ul>	<ul style="list-style-type: none"><li>● <math>50 \div 10</math></li><li>● All digits move 1 place right</li><li>● <math>50 \div 10 = 05</math></li></ul>



$10\% \times 300$	$10\% \times 300$	$10\% \times 800$
$450 \times 10\%$	$660 \times 10\%$	$740 \times 10\%$
10% of 950	10% of 950	10% of 100
10% of 65	$10\% \times 0.85$	$76 \times 10\%$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Find 20% of any number	<ul style="list-style-type: none"><li>• Know that 20% = <math>\frac{1}{5}</math> and we find this by dividing by 5.</li><li>• Or, divide by 10 then double your answer.</li></ul>	<ul style="list-style-type: none"><li>• 20% of 50 = <math>50 \div 5</math></li><li>• <math>50 \div 5 = 10</math></li><li>• <math>50 \div 10 = 5</math>, doubled = 10</li><li>• 20% (or <math>\frac{1}{5}</math>) of 50 = 10</li></ul>

$20\% \times 300$	$20\% \times 300$	$20\% \times 800$
$450 \times 20\%$	$660 \times 20\%$	$740 \times 20\%$
20% of 950	20% of 950	20% of 100
20% of 65	$20\% \times 0.85$	$76 \times 20\%$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Find 5% of any number	<ul style="list-style-type: none"><li>● Use our Smart Strategy for dividing any number by 10.</li><li>● Halve your answer.</li><li>● Or, divide by 20 if you can!</li></ul>	<ul style="list-style-type: none"><li>● 5% of 300 = ?</li><li>● <math>300 \div 10 = 30</math></li><li>● Half of 30 = 15</li><li>● So, 5% of 300 must be... 15</li></ul>

$5\% \times 300$	$5\% \times 300$	$5\% \times 800$
$400 \times 5\%$	$660 \times 5\%$	$740 \times 5\%$
5% of 900	5% of 720	5% of 100
5% of 840	$5\% \times 84$	$8.4 \times 5\%$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 999	<ul style="list-style-type: none"><li>• Use our Smart Strategy for multiplying by 1000</li><li>• Subtract the number you started with.</li></ul>	<ul style="list-style-type: none"><li>• <math>47 \times 999 = ?</math></li><li>• <math>47 \times 1000 = 47,000</math></li><li>• <math>47,000 - 47 = 46,953</math></li><li>• So, <math>47 \times 999 = 46,953</math></li></ul>

$4 \times 999$	$32 \times 999$	$13 \times 999$
$20 \times 999$	$17 \times 999$	$60 \times 999$
$27 \times 999$	$8 \times 999$	$1 \times 999$
$6.2 \times 999$	$4.5 \times 999$	$18.1 \times 999$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 20	<ul style="list-style-type: none"><li>• Use our Smart Strategy for multiplying by 10.</li><li>• Double your answer.</li></ul>	<ul style="list-style-type: none"><li>• <math>36 \times 20 = ?</math></li><li>• <math>36 \times 10 = 360</math></li><li>• <math>360 \times 2 = 600 + 120 = 720</math></li><li>• So, <math>36 \times 20</math> must be... 720</li></ul>



4 x 20	32 x 20	13 x 20
20 x 20	17 x 20	60 x 20
27 x 20	8 x 20	1 x 20
6.2 x 20	4.5 x 20	18.1 x 20

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 19	<ul style="list-style-type: none"><li>• Use our Smart Strategy for multiplying by 20.</li><li>• Subtract the number you started with.</li></ul>	<ul style="list-style-type: none"><li>• <math>37 \times 19 = ?</math></li><li>• <math>37 \times 10 = 370</math></li><li>• <math>370 \times 2 = 740</math> (600 + 140)</li><li>• <math>740 - 37 = 703</math></li><li>• So, <math>37 \times 19 = 703</math></li></ul>

$4 \times 19$	$32 \times 19$	$13 \times 19$
$20 \times 19$	$17 \times 19$	$60 \times 19$
$27 \times 19$	$8 \times 19$	$1 \times 19$
$6.2 \times 19$	$4.5 \times 19$	$18.1 \times 19$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 21	<ul style="list-style-type: none"><li>• Use our Smart Strategy for multiplying by 20.</li><li>• Add the number you started with.</li></ul>	<ul style="list-style-type: none"><li>• <math>37 \times 19 = ?</math></li><li>• <math>37 \times 10 = 370</math></li><li>• <math>370 \times 2 = 740</math> (600 + 140)</li><li>• <math>740 - 37 = 703</math></li><li>• So, <math>37 \times 19 = 703</math></li></ul>

$4 \times 21$	$32 \times 21$	$13 \times 21$
$20 \times 21$	$17 \times 21$	$60 \times 21$
$27 \times 21$	$8 \times 21$	$1 \times 21$
$6.2 \times 21$	$4.5 \times 21$	$18.1 \times 21$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Divide any number by 5	<ul style="list-style-type: none"><li>• Use bus stop division and your 5x tables to divide by 5.</li><li>• Or, divide by 10 quickly then double your answer.</li></ul>	<ul style="list-style-type: none"><li>• <math>840 \div 5 = ?</math></li><li>• <math>840 \div 10 = 84</math></li><li>• <math>84 \times 2 = 160 + 8 = 168</math></li><li>• <math>840 \div 5 = 168</math></li></ul>

$1,300 \div 5$	$2,400 \div 5$	$1,200 \div 5$
$4,400 \div 5$	$6,800 \div 5$	$3,100 \div 5$
$1,900 \div 5$	$2,000 \div 5$	$4,500 \div 5$
$7,800 \div 5$	$175 \div 5$	$1,025 \div 5$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Divide any number by 8	<ul style="list-style-type: none"><li>• Use our Smart Strategy for dividing by 4, then halve your answer.</li><li>• Or, use your 8x tables to complete a bus stop division.</li></ul>	<ul style="list-style-type: none"><li>• <math>480 \div 8 = ?</math></li><li>• <math>\frac{1}{2}</math> of 480 = 240</li><li>• <math>\frac{1}{2}</math> of 240 = 120</li><li>• <math>\frac{1}{2}</math> of 120 = 60</li><li>• <math>480 \div 8 = 60</math> (what is <math>6 \times 8</math>?)</li></ul>



$320 \div 8$	$240 \div 8$	$120 \div 8$
$4,400 \div 8$	$6,800 \div 8$	$3,200 \div 8$
$1,800 \div 8$	$2,000 \div 8$	$4,200 \div 8$
$14,800 \div 8$	$16.16 \div 8$	$11,000 \div 8$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Find 1% of any number	<ul style="list-style-type: none"><li>• Use our Smart Strategy for dividing by 100.</li><li>• Know that 1% is the same as the fraction <math>1/100</math></li></ul>	<ul style="list-style-type: none"><li>• 1% of 700</li><li>• <math>1\% = 1/100</math></li><li>• <math>700 \div 100 = 7</math></li><li>• <math>1\% \text{ of } 700 = 7</math></li></ul>

$1\% \times 300$	$1\% \times 300$	$1\% \times 800$
$450 \times 1\%$	$600 \times 1\%$	$700 \times 1\%$
1% of 900	1% of 4,000	1% of 100
1% of 65	$1\% \times 0.85$	$76 \times 1\%$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 15	<ul style="list-style-type: none"><li>• Use our Smart Strategy to quickly multiply by 10.</li><li>• Halve this and add it to your answer.</li></ul>	<ul style="list-style-type: none"><li>• <math>84 \times 15 = ?</math></li><li>• <math>84 \times 10 = 840</math></li><li>• <math>\frac{1}{2}</math> of 840 = 420 (<math>84 \times 5</math>)</li><li>• <math>84 \times 15 = 840 + 420 = 1,260</math></li></ul>

$13 \times 15$	$25 \times 15$	$41 \times 15$
$24 \times 15$	$32 \times 15$	$29 \times 15$
$280 \times 15$	$83 \times 15$	$66 \times 15$
$22.5 \times 15$	$103 \times 15$	$110 \times 15$

<u>AIM</u>	<u>SMART STRATEGY</u> <u>(Tell me)</u>	<u>EXAMPLE</u> <u>(Show Me)</u>
Multiply any number by 25	<ul style="list-style-type: none"><li>● Use our Smart Strategy to quickly multiply by 15.</li><li>● Multiply your starting number by 10.</li><li>● Add the two together!</li></ul>	<ul style="list-style-type: none"><li>● <math>84 \times 25 = ?</math></li><li>● <math>84 \times 15 = 1,260</math> (see above)</li><li>● <math>84 \times 10 = 840</math></li><li>● <math>1,260 + 840 = 2,100</math></li><li>● So, <math>84 \times 25 = 2,100</math></li></ul>

$13 \times 25$	$25 \times 25$	$41 \times 25$
$24 \times 25$	$32 \times 25$	$29 \times 25$
$280 \times 25$	$83 \times 25$	$66 \times 25$
$22.5 \times 25$	$103 \times 25$	$110 \times 25$