

Addition Strategies

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Y1	<div>A1: Objects & Pictures</div> <div><p>In the PE cupboard there were 3 red footballs and 5 blue footballs. How many footballs altogether? Answer: 8</p><p>3 + 5 = 8</p></div>		<div><div><div>02</div></div><div>Addition</div><div><div>02</div></div></div> <div><div>Addition Strategies</div><div><ul style="list-style-type: none">A1 Objects & PicturesA2 Counting OnA3 Forwards JumpA4 PartitioningA5 Partition JotA6 Expanded ColumnA7 Column Addition</div><div></div></div>					
Y1	<div>A1a: Largest Number 1st</div> <div><p>In the PE cupboard there were 5 red footballs and 3 blue footballs. How many footballs altogether? Answer: 8</p><p>5 + 3 = 8</p></div>	<div>A2: Counting On</div> <div><p>+1 +1 +1</p><p>5 6 7 8</p><p>5 + 3 = 8</p></div>		<div>A2a: Counting On</div> <div><p>+2 +3</p><p>8 9 10 11 12 13</p><p>8 + 5 = 13</p></div>	<div>A6: Part/Whole</div> <div><p>8 + 5 = 13</p><p>2 3</p><p>10 + 3 = 13</p></div>		<div>Addition Calculation</div> <div><p>4 + 2 = 6</p><p>(add) (equals)</p><p>addend total</p><p>+ addend sum</p></div>	<div>Addition Vocabulary</div> <div><p>increase add total</p><p>+ plus addition</p><p>more count on</p><p>sum altogether</p></div>
Y2		<div>A2c: Counting On</div> <div><p>+3 +3</p><p>57 58 59 60 61 62 63</p><p>57 + 6 = 63</p></div>		<div>A2b: Counting On</div> <div><p>+2 +5</p><p>18 19 20 21 22 23 24 25</p><p>18 + 7 = 25</p></div>	<div>A6: Part/Whole</div> <div><p>18 + 7 = 25</p><p>2 5</p><p>20 + 5 = 25</p></div>			
Y2		<div>A3: Forwards Jump</div> <div><p>+20 +4</p><p>43 53 63 64 65 66 67</p><p>43 + 24 = 67</p></div>	<div>A4: Partitioning</div> <div><p>43 + 24 = 67</p><p>40 + 20 = 60</p><p>3 + 4 = 7</p><p>60 + 7 = 67</p></div>	<div>A5: Partition Jot</div> <div><p>43 + 24 = 67</p><p>60 + 7</p></div>		<div>A7: Expanded Column</div> <div><p>43</p><p>+ 24</p><p>7</p><p>60</p><p>67</p></div>	<div>A8: Column Addition</div> <div><p>43</p><p>+ 24</p><p>67</p></div>	
Y2		<div>A3a: Forwards Jump</div> <div><p>+20 +5</p><p>57 77 82</p><p>57 + 25 = 82</p></div>	<div>A4a: Partitioning</div> <div><p>57 + 25 = 82</p><p>50 + 20 = 70</p><p>7 + 5 = 12</p><p>70 + 12 = 82</p></div>	<div>A5a: Partition Jot</div> <div><p>57 + 25 = 82</p><p>70 + 12</p></div>	<div>A6a: Part/Whole</div> <div><p>57 + 25 = 82</p><p>3 22</p><p>60 + 22 = 82</p></div>	<div>A7a: Expanded Column</div> <div><p>57</p><p>+ 25</p><p>12</p><p>70</p><p>82</p></div>	<div>A8a: Column Addition</div> <div><p>57</p><p>+ 25</p><p>82</p></div>	
Y2/3		<div>A3b: Forwards Jump</div> <div><p>+50 +2</p><p>75 125 127</p><p>75 + 52 = 127</p></div>	<div>A4b: Partitioning</div> <div><p>75 + 52 = 127</p><p>70 + 50 = 120</p><p>5 + 2 = 7</p><p>120 + 7 = 127</p></div>	<div>A5b: Partition Jot</div> <div><p>75 + 52 = 127</p><p>120 + 7</p></div>	<div>A6b: Part/Whole</div> <div><p>75 + 52 = 127</p><p>25 27</p><p>100 + 27 = 127</p></div>	<div>A7b: Expanded Column</div> <div><p>75</p><p>+ 52</p><p>7</p><p>120</p><p>127</p></div>	<div>A8b: Column Addition</div> <div><p>75</p><p>+ 52</p><p>127</p></div>	
Y2/3		<div>A3c: Forwards Jump</div> <div><p>+40 +8</p><p>86 126 134</p><p>86 + 48 = 134</p></div>	<div>A4c: Partitioning</div> <div><p>86 + 48 = 134</p><p>80 + 40 = 120</p><p>6 + 8 = 14</p><p>120 + 14 = 134</p></div>	<div>A5c: Partition Jot</div> <div><p>86 + 48 = 134</p><p>120 + 14</p></div>	<div>A6c: Part/Whole</div> <div><p>86 + 48 = 134</p><p>14 34</p><p>100 + 34 = 134</p></div>	<div>A7c: Expanded Column</div> <div><p>86</p><p>+ 48</p><p>14</p><p>120</p><p>134</p></div>	<div>A8c: Column Addition</div> <div><p>86</p><p>+ 48</p><p>134</p></div>	
Y3		<div>A3d: Forwards Jump</div> <div><p>+200 +40 +8</p><p>687 887 927 935</p><p>687 + 248 = 935</p></div>	<div>A4d: Partitioning</div> <div><p>687 + 248 = 935</p><p>600 + 200 = 800</p><p>80 + 40 = 120</p><p>7 + 8 = 15</p><p>800 + 120 + 15 = 935</p></div>	<div>A5d: Partition Jot</div> <div><p>687 + 248 = 935</p><p>800 + 120 + 15</p></div>	<div>A6d: Part/Whole</div> <div><p>687 + 248 = 935</p><p>13 235</p><p>700 + 235 = 935</p></div>	<div>A7d: Expanded Column</div> <div><p>687</p><p>+ 248</p><p>15</p><p>120</p><p>800</p><p>935</p></div>	<div>A8d: Column Addition</div> <div><p>687</p><p>+ 248</p><p>935</p></div>	

Y3/4		A3e: Forwards Jump $738 + 524 = 1262$ 	A4e: Partitioning $738 + 524 = 1262$ $700 + 500 = 1200$ $30 + 20 = 50$ $8 + 4 = 12$ $1200 + 50 + 12 = 1262$	A5e: Partition Jot $738 + 524 = 1262$ 		A7e: Expanded Column $738 + 524 = 1262$ 	A8e: Column Addition $738 + 524 = 1262$ 	
Y4				A5f: Partition Jot $4873 + 3762 = 8635$ 			A8f: Column Addition $4873 + 3762 = 8635$ 	
Y5							A8g: Column Addition $787567 + 446278 = 1233845$ 	
Y5		A3h: Decimal Jump $4.8 + 3.8 = 8.6$ 	A4h: Partitioning $4.8 + 3.8 = 8.6$ $4 + 3 = 7$ $0.8 + 0.8 = 1.6$ $7 + 1.6 = 8.6$	A5h: Partition Jot $4.8 + 3.8 = 8.6$ 	A6h: Part/Whole $4.8 + 3.8 = 8.6$ 		A8h: Column Addition $4.8 + 3.8 = 8.6$ 	
Y5		A3i: Decimal Jump $5.65 + 3.29 = 8.94$ 		A5i: Partition Jot $5.65 + 3.29 = 8.94$ 			A8i: Column Addition $5.65 + 3.29 = 8.94$ 	
Y5				A5j: Partition Jot $76.7 + 58.5 = 135.2$ 	A6j: Part/Whole $76.7 + 58.5 = 135.2$ 		A8j: Column Addition $76.7 + 58.5 = 135.2$ 	
Y5				A5k: Partition Jot $£38.25 + £27.46 = £65.71$ 			A8k: Column Addition $£38.25 + £27.46 = £65.71$ 	

		A8l: Column Addition $73.4 + 5.67 = 79.07$ 	
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Progression Overviews

Sense of Number Written Strategies VCP © Sense of Number 2018



St Philip's CE Primary School

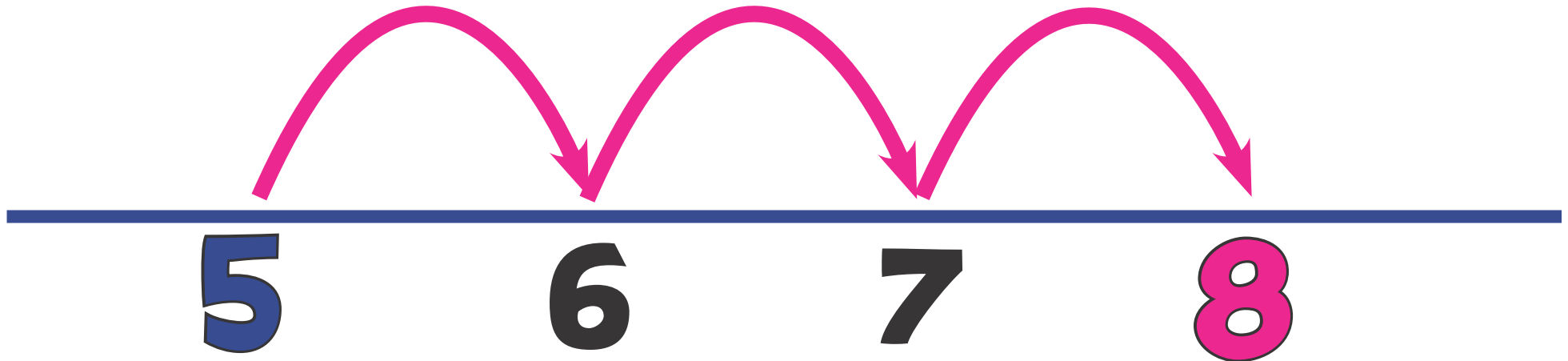
A2: Counting On

1

+1

+1

+1



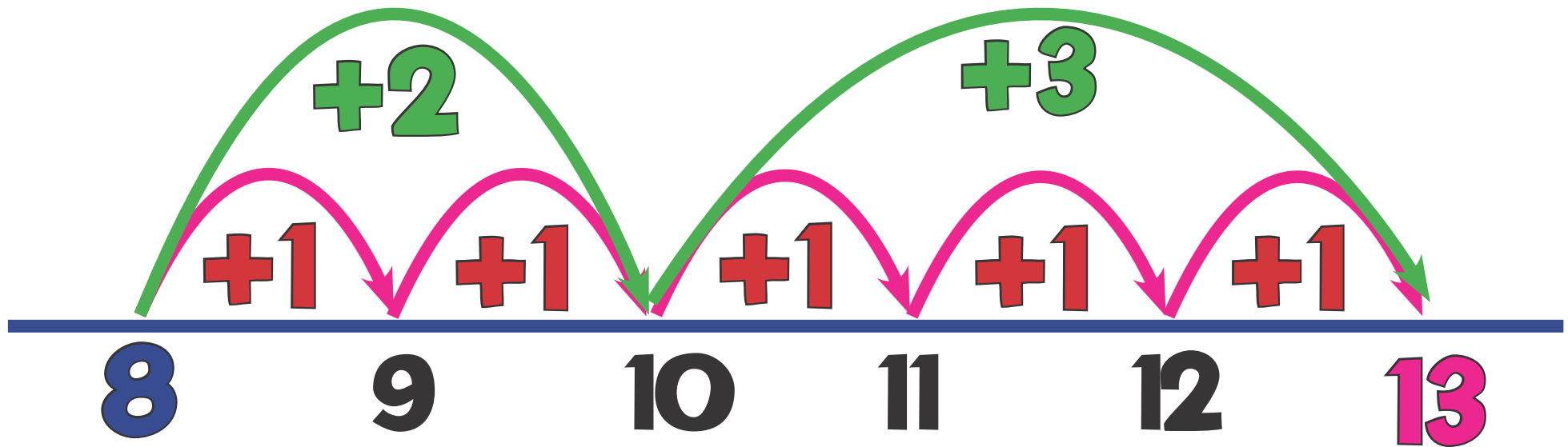
$$5 + 3 = 8$$



A2a: Counting On

1

Bridging 10



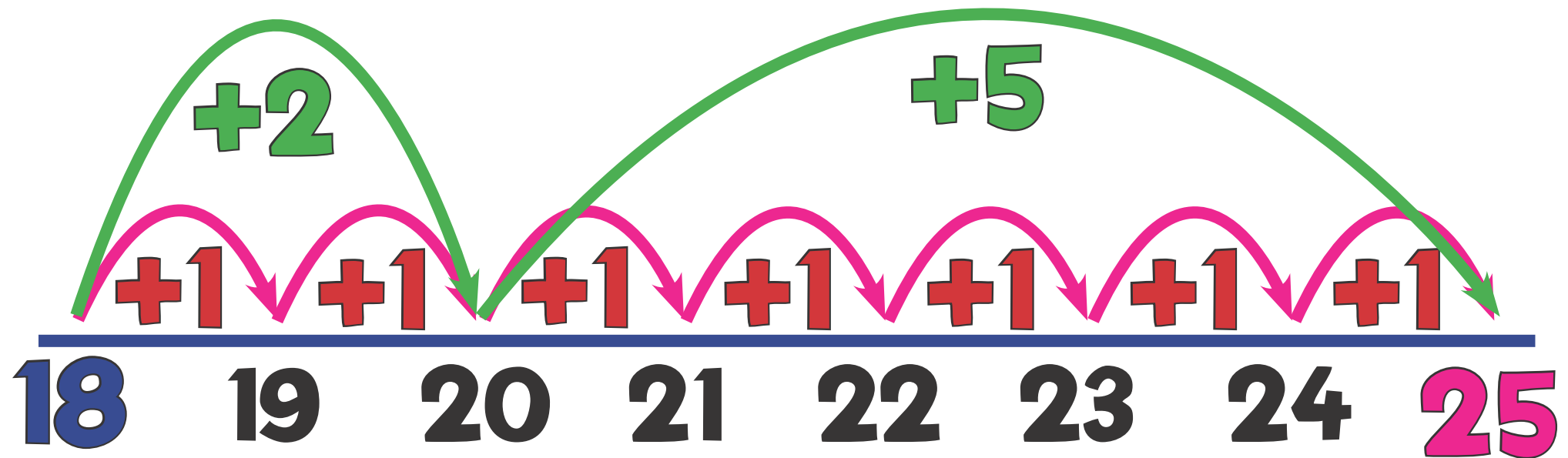
$$8 + 5 = 13$$



A2b: Counting On

1

Bridging 10



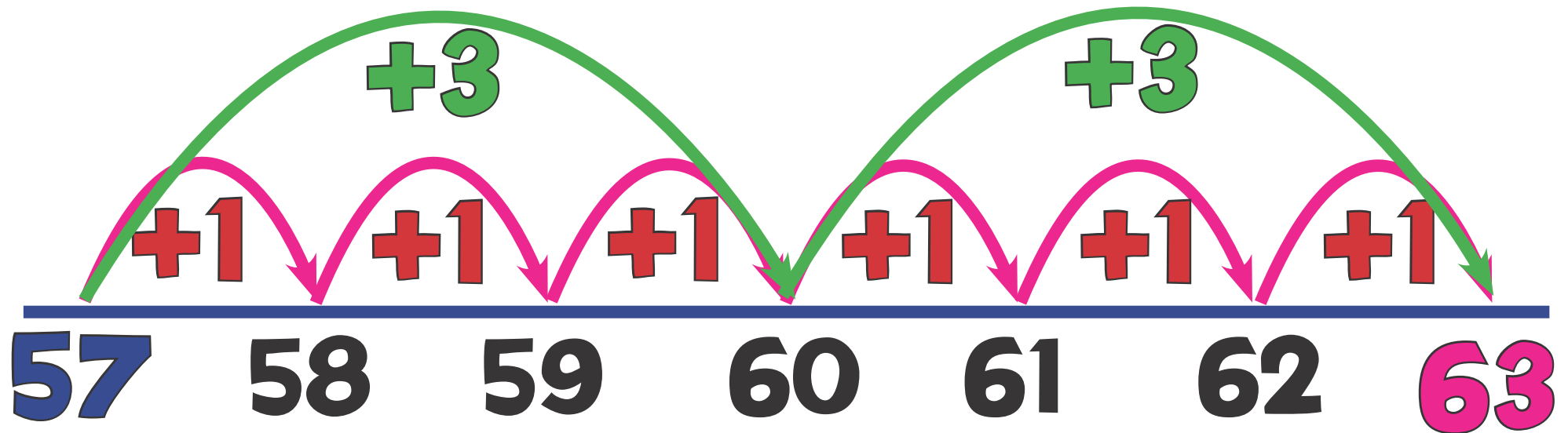
$$18 + 7 = 25$$



A2c: Counting On

2

Bridging 10s Number



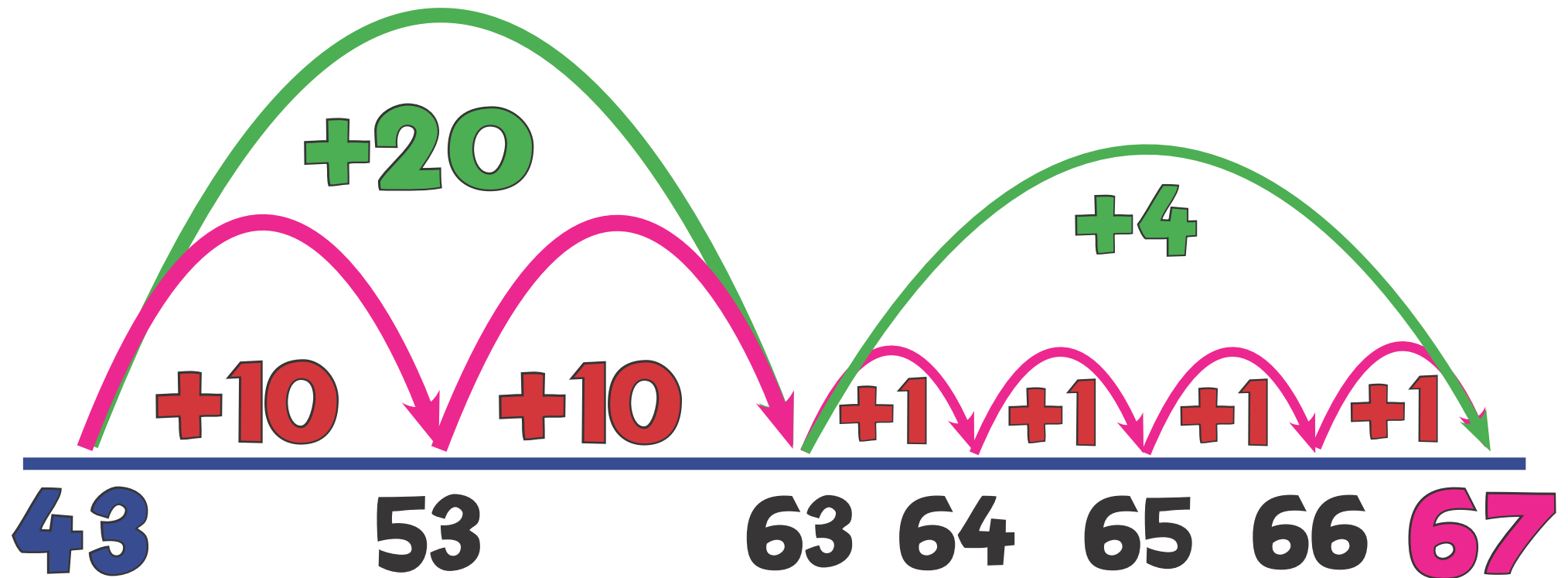
$$57 + 6 = 63$$



A3: Forwards Jump

2

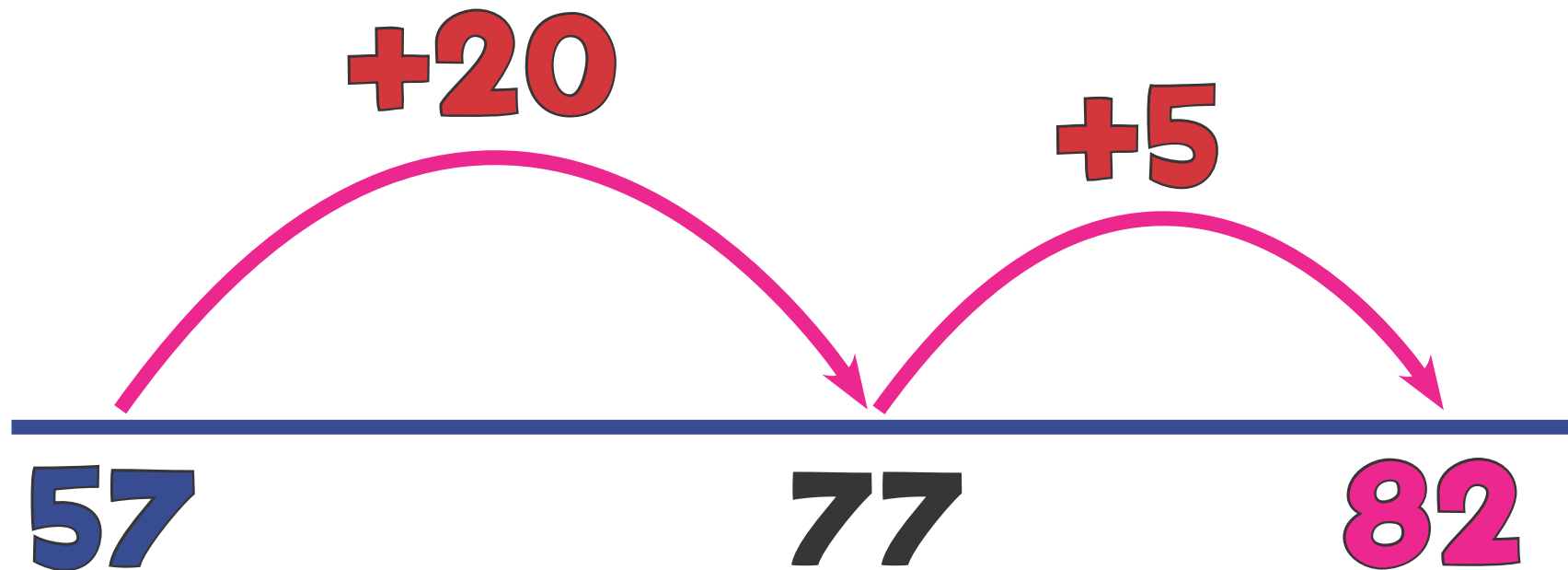
$$43 + 24 = 67$$



A3a: Forwards Jump

2

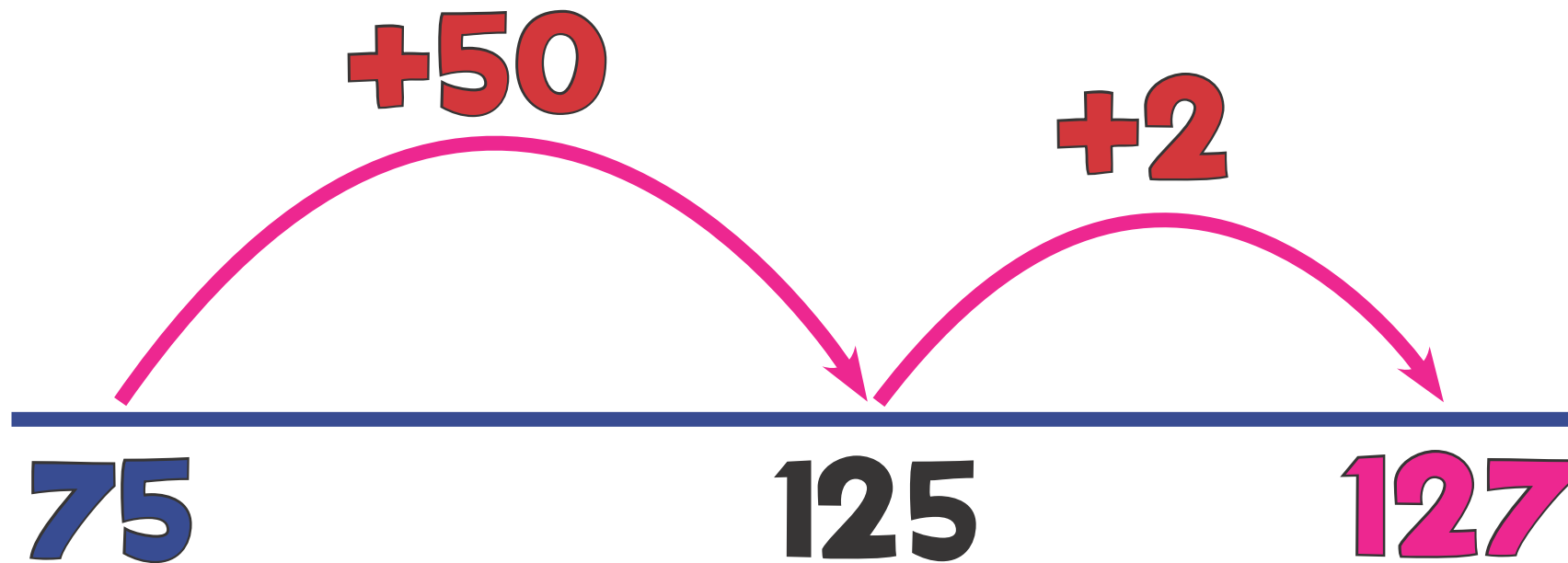
$$57 + 25 = 82$$



A3b: Forwards Jump

2/3

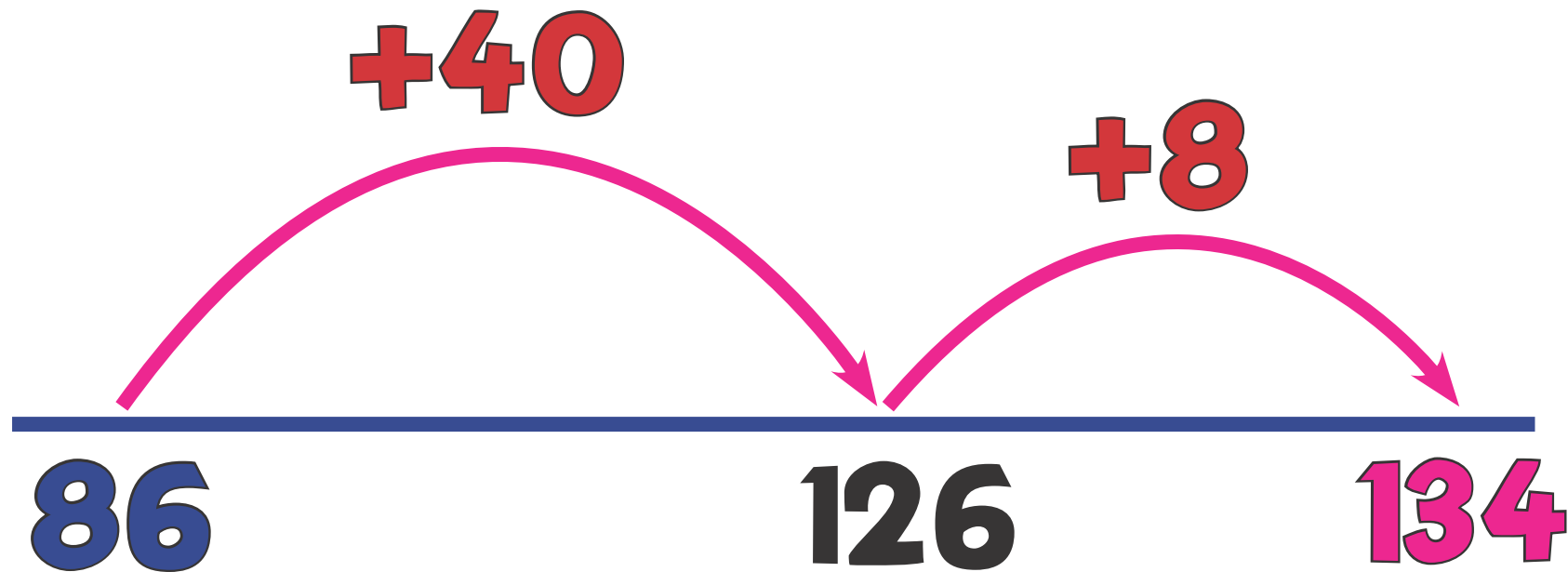
$$75 + 52 = 127$$



A3c: Forwards Jump

2/3

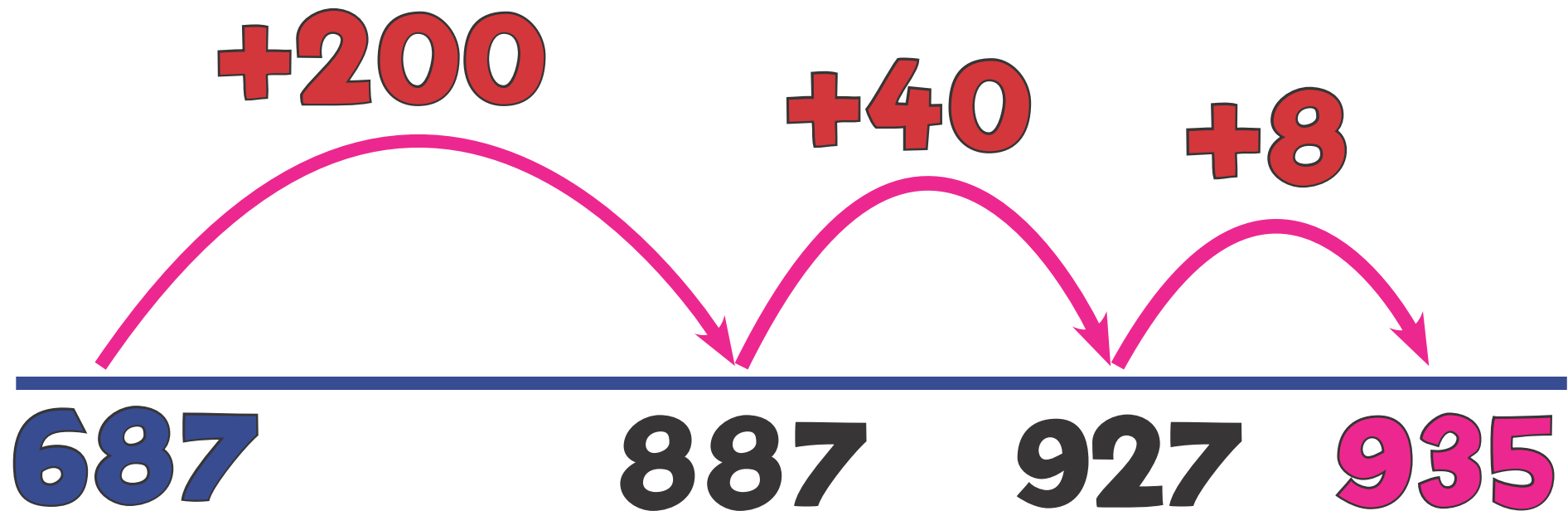
$$86 + 48 = 134$$



A3d: Forwards Jump

3

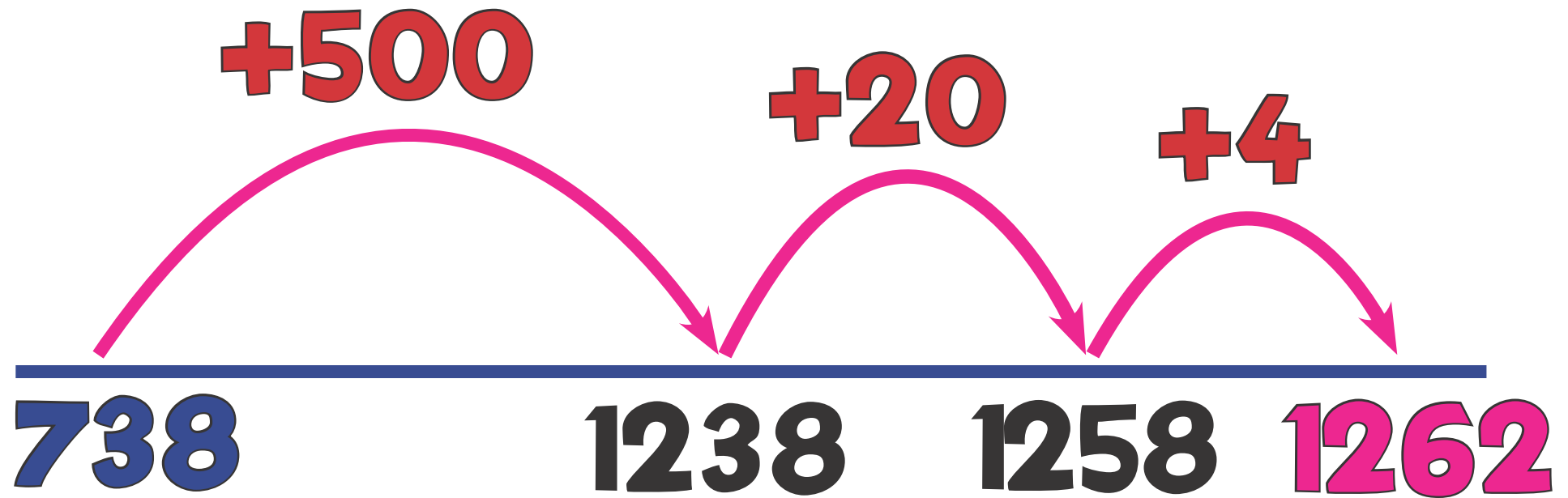
$$687 + 248 = 935$$



A3e: Forwards Jump

3/4

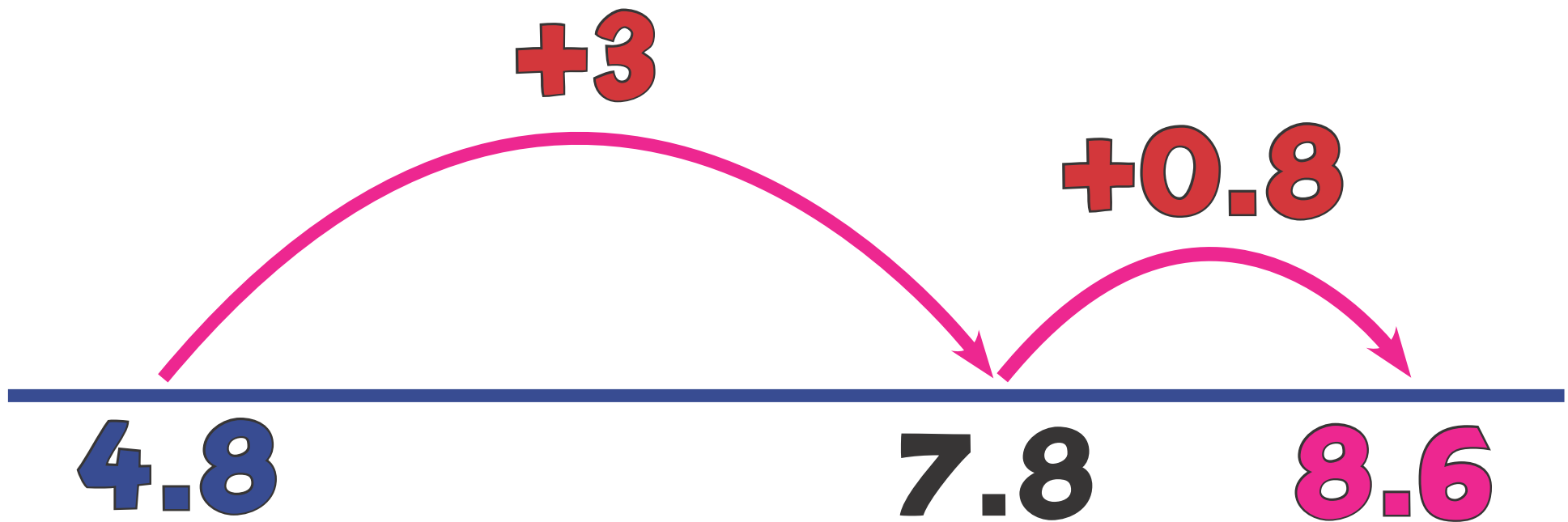
$$738 + 524 = 1262$$



A3h: Decimal Jump

5

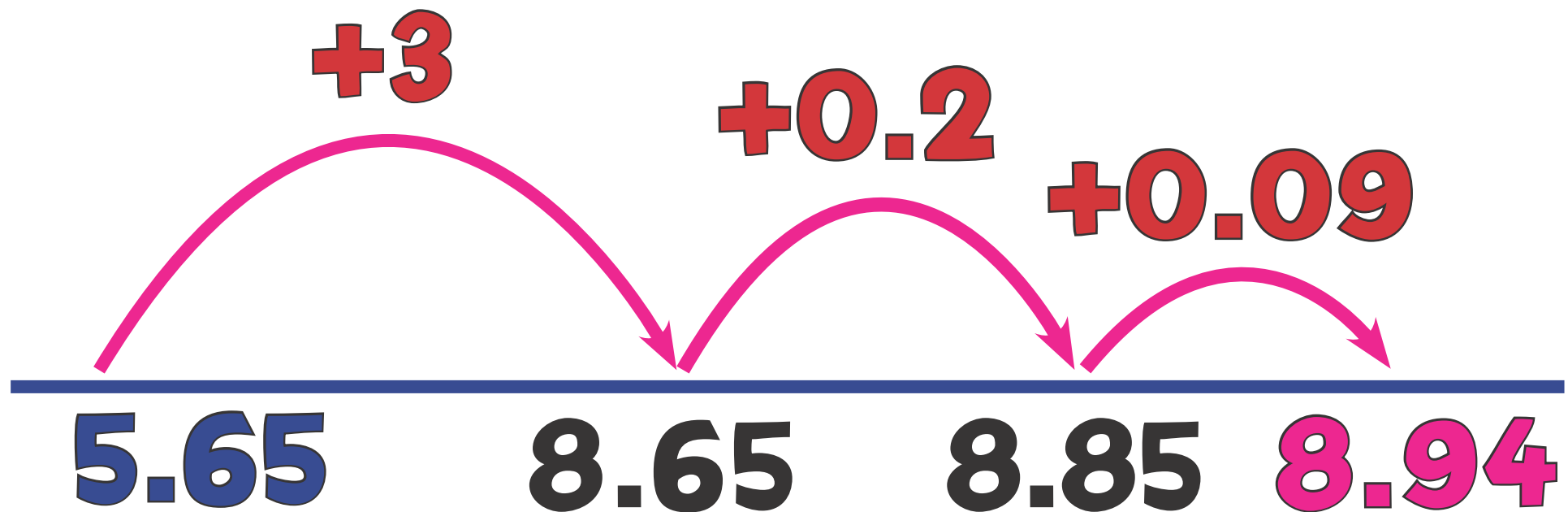
$$4.8 + 3.8 = 8.6$$



A3i: Decimal Jump

5

$$5.65 + 3.29 = 8.94$$



A4: Partitioning

2

$$43 + 24 = 67$$

$$40 + 20 = 60$$

$$3 + 4 = 7$$

$$67$$



A4a: Partitioning

2

$$57 + 25 = 82$$

$$50 + 20 = 70$$

$$7 + 5 = 12$$

$$82$$



A4b: Partitioning

2/3

$$75 + 52 = 127$$

$$70 + 50 = 120$$

$$5 + 2 = 7$$

$$127$$



A4c: Partitioning

2/3

$$86 + 48 = 134$$

$$80 + 40 = 120$$

$$6 + 8 = 14$$

$$134$$



A4d: Partitioning

3

$$687 + 248 = 935$$

$$600 + 200 = 800$$

$$80 + 40 = 120$$

$$7 + 8 = 15$$

$$935$$



A4e: Partitioning

3/4

$$738 + 524 = 1262$$

$$700 + 500 = 1200$$

$$30 + 20 = 50$$

$$8 + 4 = 12$$

$$1262$$



A4h: Partitioning

5

$$4.8 + 3.8 = 8.6$$

$$4 + 3 = 7$$

$$\begin{array}{r} 0.8 + 0.8 = 1.6 \\ \hline 8.6 \end{array}$$



A5: Partition Jot

2

$$43 + 24 = 67$$

$$60 + 7$$



A5a: Partition Jot

2

$$57 + 25 = 82$$

A diagram illustrating the partitioning of the numbers 57 and 25. Red lines connect the '5' in 57 to the '70' in the second equation, and the '2' in 25 to the '12' in the second equation. Green lines connect the '7' in 57 to the '12' in the second equation, and the '5' in 25 to the '70' in the second equation. This shows that 57 is partitioned into 70 and 7, and 25 is partitioned into 12 and 13, with the 7 and 13 combining to form 20, which is then added to 70 to get 90. However, the final result shown is 82, suggesting a different partitioning strategy or a correction.

$$70 + 12$$



A5b: Partition Jot

2/3

$$75 + 52 = 127$$

A diagram illustrating the partitioning of the numbers 75 and 52. Two lines connect the tens digits: a red line from the 7 in 75 to the 2 in 52, and a green line from the 5 in 75 to the 5 in 52. These lines cross. Below the first equation, the result is shown as 120 + 7. The 120 is in red and the 7 is in green, matching the color-coding of the original numbers.

$$120 + 7$$



A5c: Partition Jot

2/3

$$86 + 48 = 134$$

A diagram illustrating the partitioning of the numbers 86 and 48. Red lines connect the '8' in 86 to the '12' in 120, and the '6' in 86 to the '0' in 120. Green lines connect the '4' in 48 to the '1' in 14, and the '8' in 48 to the '4' in 14. This shows that 86 is partitioned into 80 and 6, and 48 is partitioned into 40 and 8, which are then combined to form 120 and 14.

$$120 + 14$$



A5d: Partition Jot

3

$$687 + 248 = 935$$

A diagram showing the partitioning of the numbers 687 and 248 into their place value components. Colored lines connect the digits of the first number to the corresponding digits of the second number: a blue line from 6 to 8, a red line from 8 to 2, a green line from 7 to 4, a blue line from 6 to 4, a red line from 8 to 2, and a green line from 7 to 8. This illustrates the regrouping process for addition.

$$800 + 120 + 15$$



A5e: Partition Jot

3/4

$$738 + 524 = 1262$$

Diagram illustrating the partitioning of the numbers 738 and 524 into thousands, hundreds, and tens:

- 738 is partitioned into 1200 (blue), 50 (red), and 12 (green).
- 524 is partitioned into 1200 (blue), 50 (red), and 12 (green).

$$1200 + 50 + 12$$



A5f: Partition Jot

4

$$4873 + 3762 = 8635$$

Diagram illustrating the partitioning of the numbers 4873 and 3762 into thousands, hundreds, tens, and units, showing how they combine to form the sum 8635.

4873 is partitioned into: 4000 (blue), 800 (dark blue), 70 (red), and 3 (green).

3762 is partitioned into: 3000 (blue), 700 (dark blue), 60 (red), and 2 (green).

The sum 8635 is formed by combining the partitions: 4000 + 3000 = 7000, 800 + 700 = 1500, 70 + 60 = 130, and 3 + 2 = 5.

$$7000 + 1500 + 130 + 5$$



A5h: Partition Jot

5

$$4.8 + 3.8 = 8.6$$

$$7 + 1.6$$



A5i: Partition Jot

5

$$5.65 + 3.29 = 8.94$$



$$8 + 0.8 + 0.14$$



A5j: Partition Jot

5

$$76.7 + 58.5 = 135.2$$

$$120 + 14 + 1.2$$



A5k: Partition Jot

5

$$\text{£}\underline{38}.\underline{25} + \text{£}\underline{27}.\underline{46} = \text{£}65.71$$

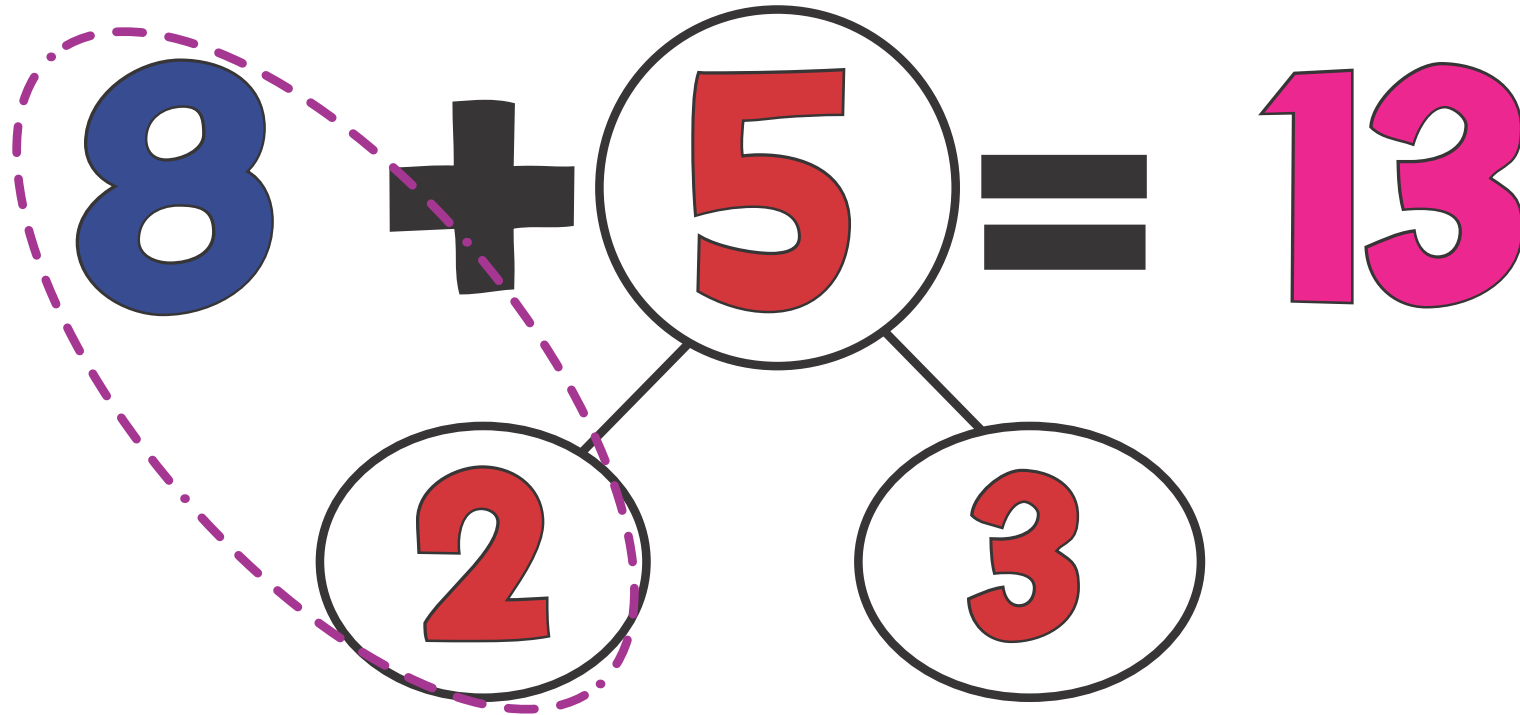
$$\text{£}65.00 + \text{£}0.71$$



A6: Part/Whole

1

Partitioning One Addend



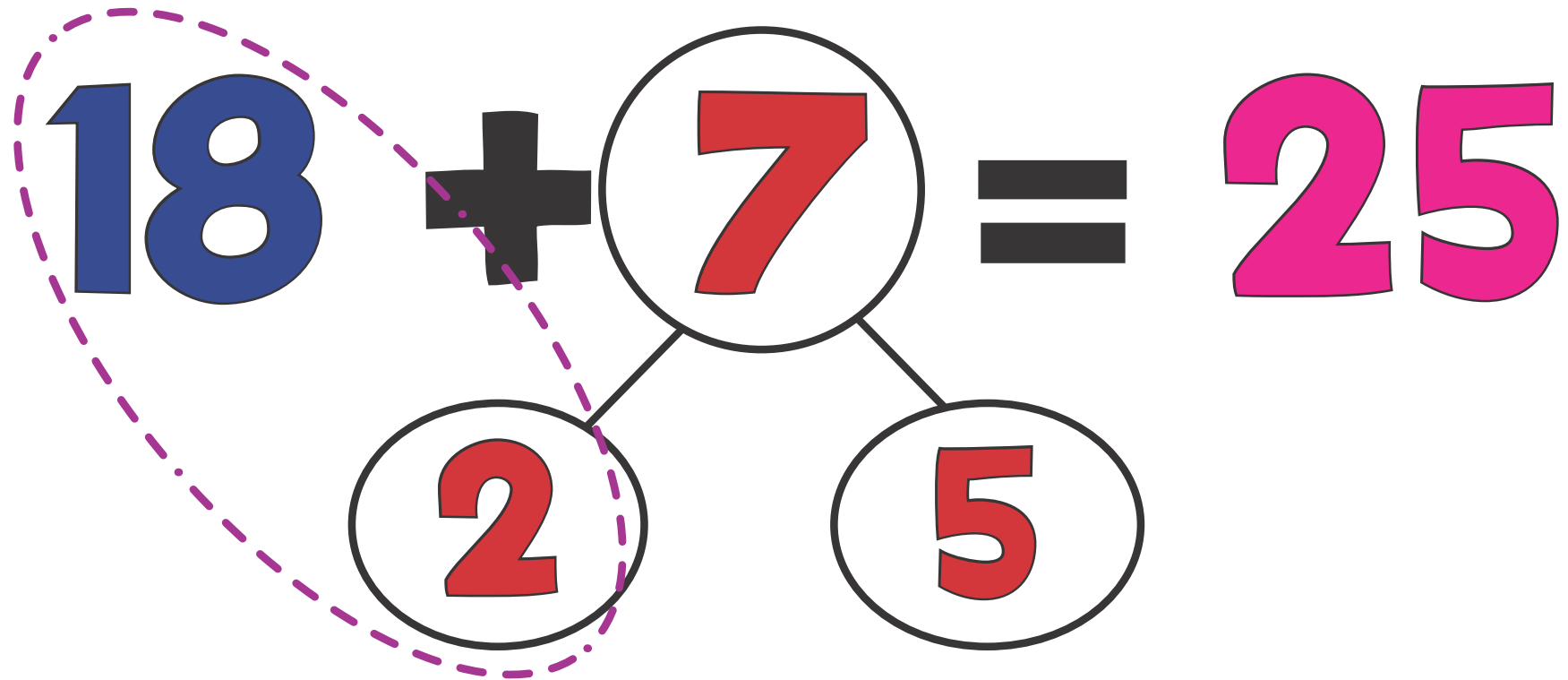
$$10 + 3 = 13$$



A6: Part/Whole

1

Partitioning One Addend



$$20 + 5 = 25$$



A6a: Part/Whole

2

Partitioning One Addend

The diagram illustrates the partitioning of the addend 25. The equation $57 + 25 = 82$ is shown at the top. The number 57 is in blue, the plus sign is black, 25 is in red and enclosed in a black oval, the equals sign is black, and 82 is in pink. A dashed purple line connects the 57 to the 3 in the partitioned addend. Below the 25, the number 3 is in red and enclosed in a black oval, and the number 22 is in red and enclosed in a black oval. Lines connect the 25 oval to the 3 and 22 ovals, showing that 25 is composed of 3 and 22.

$$57 + 25 = 82$$

3 22

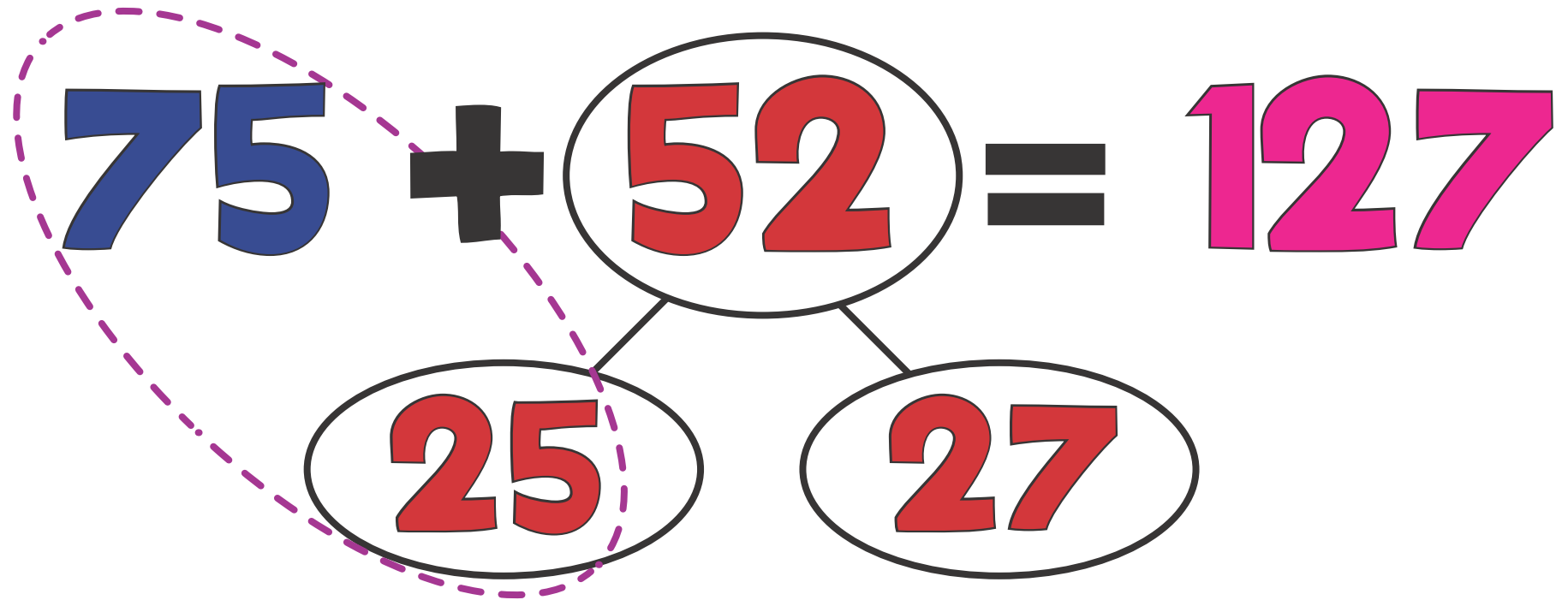
$$60 + 22 = 82$$



A6b: Part/Whole

2/3

Partitioning One Addend



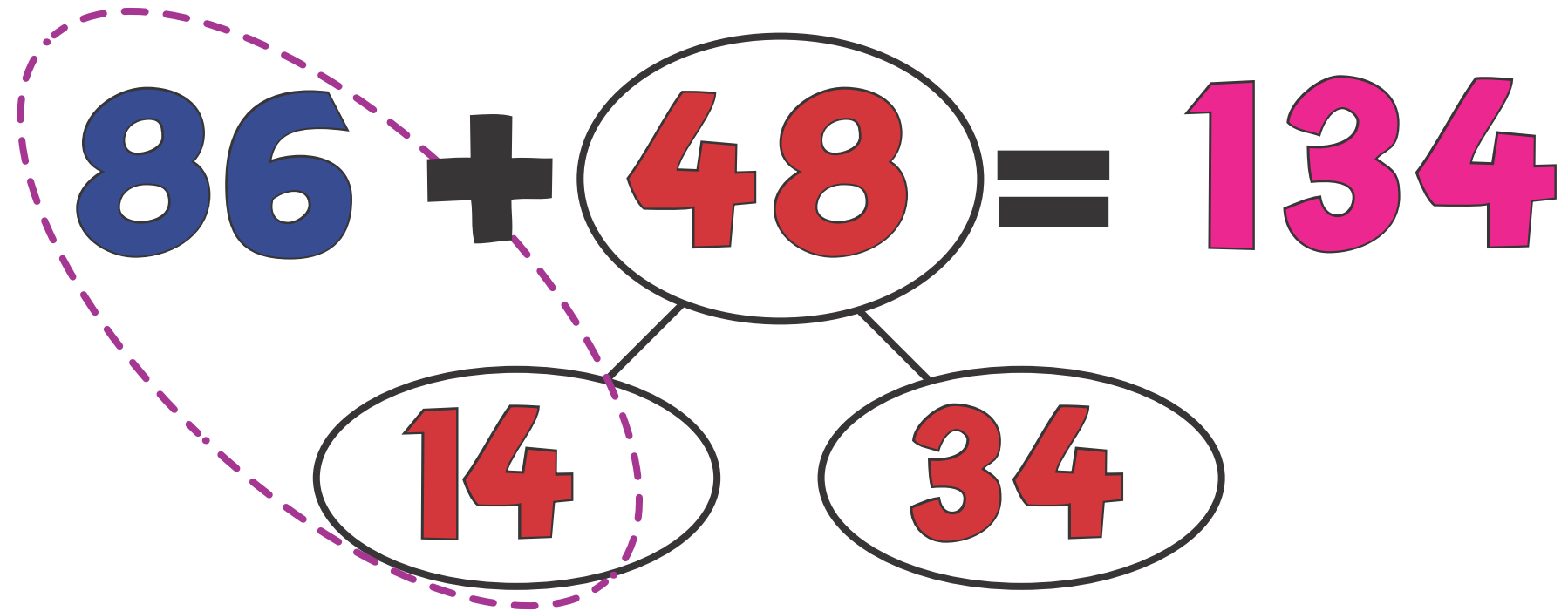
$$100 + 27 = 127$$



A6c: Part/Whole

2/3

Partitioning One Addend



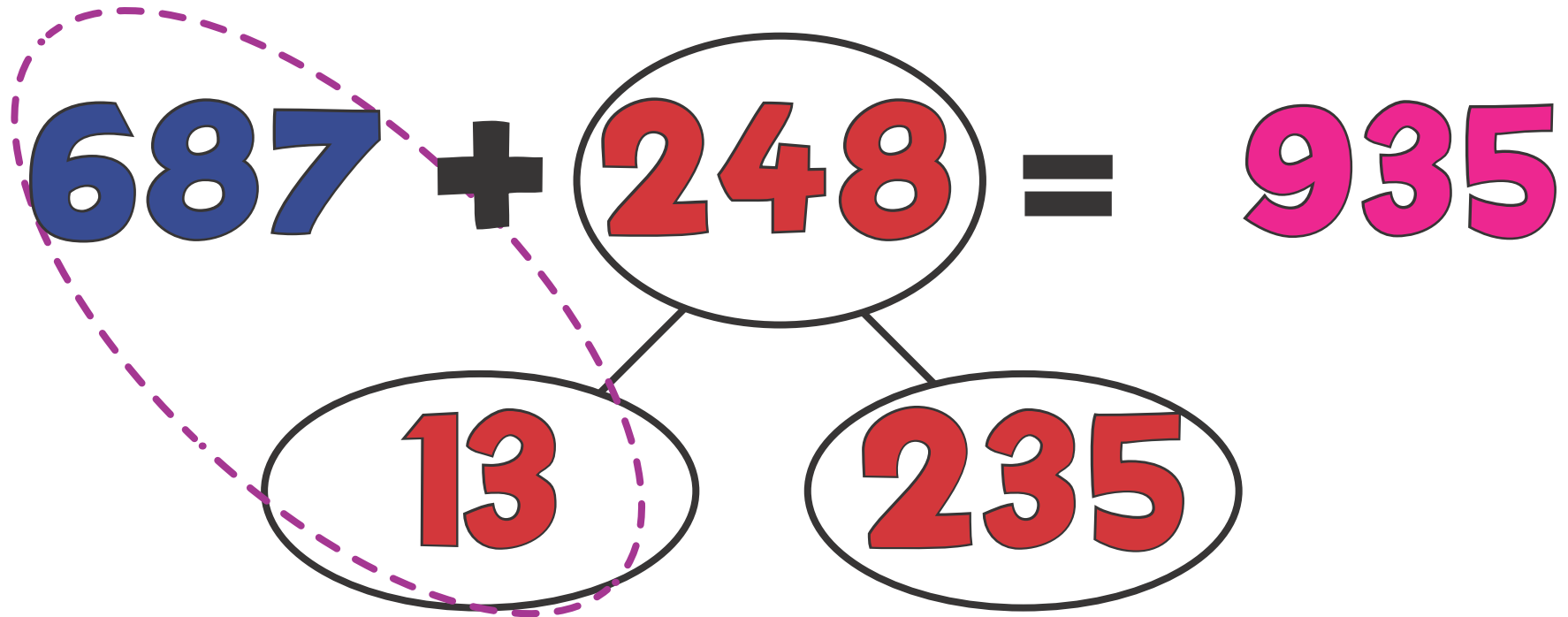
$$100 + 34 = 134$$



A6d: Part/Whole

3

Partitioning One Addend



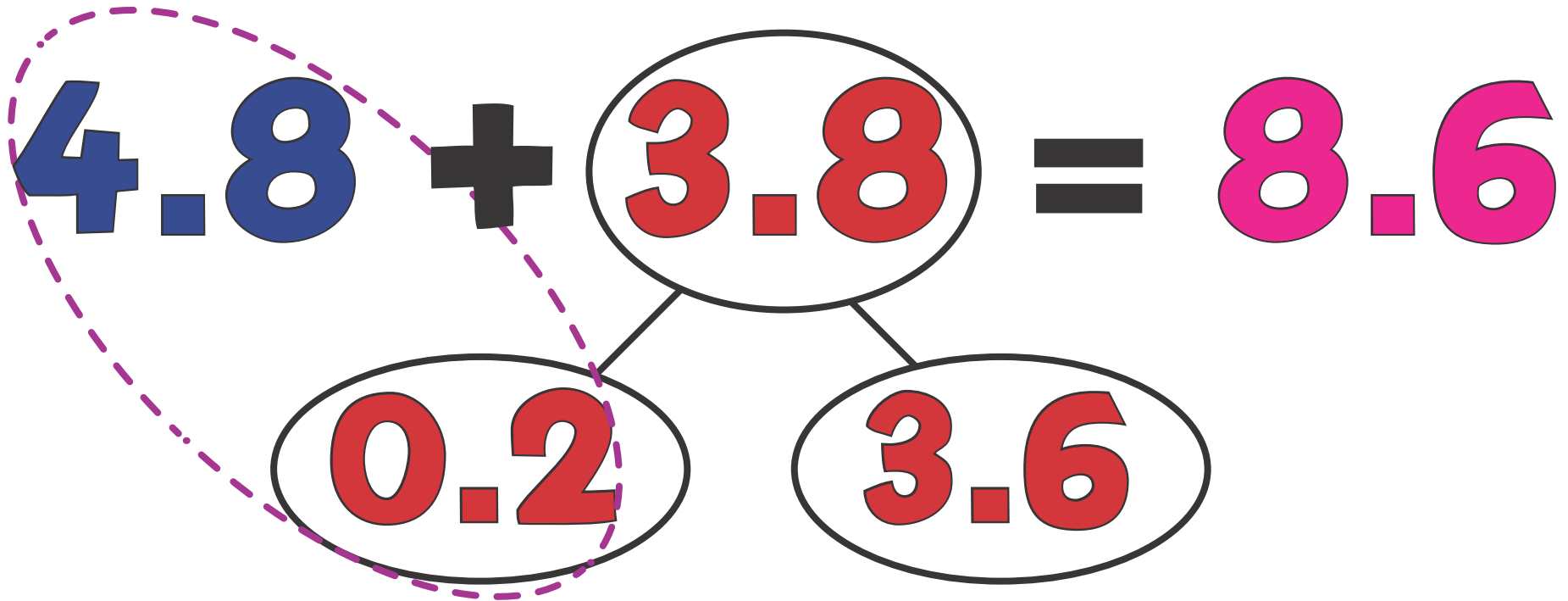
$$700 + 235 = 935$$



A6h: Part/Whole

5

Partitioning One Addend



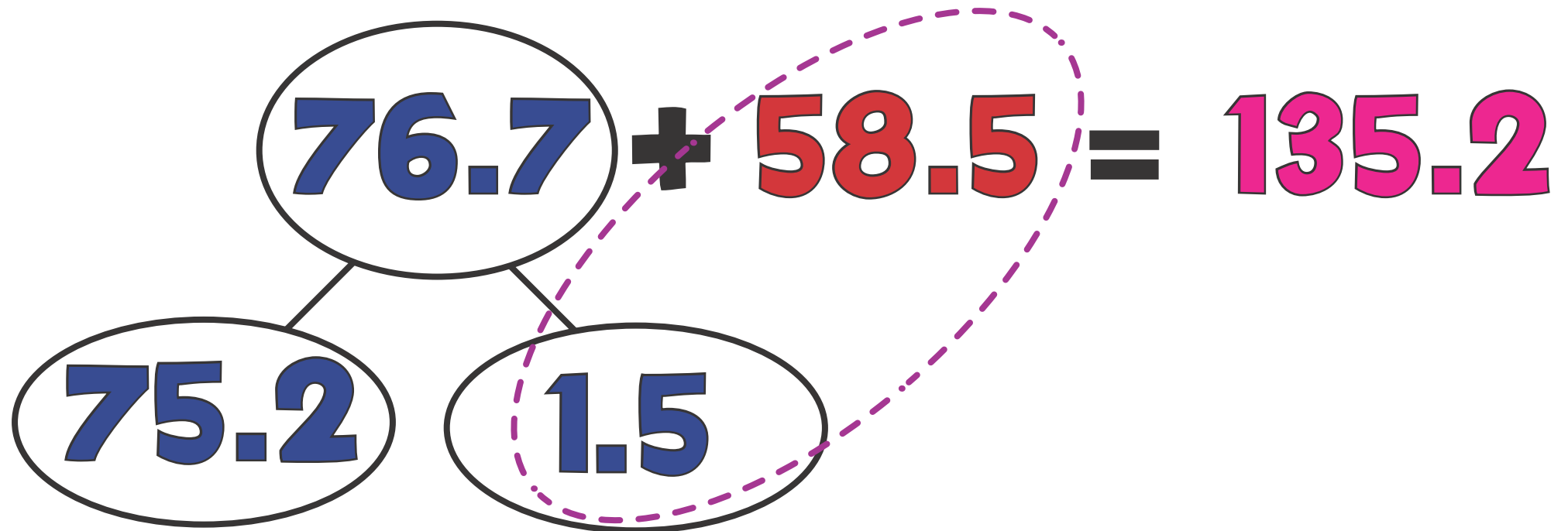
$$5 + 3.6 = 8.6$$



A6j: Part/Whole

5

Partitioning One Addend



$$75.2 + 60 = 135.2$$



A7: Expanded Column

2 Addition

$$\begin{array}{r} \begin{array}{cc} 10 & 1 \end{array} \\ 43 \\ + 24 \\ \hline 7 \\ 60 \\ \hline 67 \end{array}$$



A7a: Expanded Column

2 Addition

$$\begin{array}{r} \begin{array}{cc} 10 & 1 \end{array} \\ 57 \\ + 25 \\ \hline 12 \\ 70 \\ \hline 82 \end{array}$$



A7b: Expanded Column

2/3

Addition

$$\begin{array}{r} \text{10} \quad \text{1} \\ 75 \\ + 52 \\ \hline 7 \\ 120 \\ \hline 127 \end{array}$$



A7c: Expanded Column

2/3

Addition

	100	10	1
	8	6	
+	4	8	
<hr/>			
	1	4	
	1	2	0
<hr/>			
	1	3	4
<hr/>			



A7d: Expanded Column

3

Addition

$$\begin{array}{r} \begin{array}{ccc} 100 & 10 & 1 \end{array} \\ \begin{array}{ccc} 6 & 8 & 7 \end{array} \\ + \begin{array}{ccc} 2 & 4 & 8 \end{array} \\ \hline \begin{array}{ccc} & 15 & \\ 1 & 20 & \\ 8 & 00 & \end{array} \\ \hline \begin{array}{ccc} 9 & 3 & 5 \end{array} \end{array}$$



A7e: Expanded Column

3

Addition

	1000	100	10	1
	7	3	8	
+	5	2	4	
<hr/>				
		12		
		50		
	1200			
<hr/>				
	1262			



A8: Column Addition

2

$$\begin{array}{r} \text{10} \quad \text{1} \\ 43 \\ + 24 \\ \hline 67 \end{array}$$



A8a: Column Addition

2

$$\begin{array}{r} \text{10} \quad \text{1} \\ 57 \\ + 25 \\ \hline 82 \\ \hline 1 \end{array}$$



A8b: Column Addition

2/3

$$\begin{array}{r} \text{100} \quad \text{10} \quad \text{1} \\ 75 \\ + 52 \\ \hline 127 \\ \hline 1 \end{array}$$



A8c: Column Addition

2/3

$$\begin{array}{r} \text{100} \quad \text{10} \quad \text{1} \\ 86 \\ + 48 \\ \hline 134 \\ \hline 1 \quad 1 \end{array}$$



A8d: Column Addition

3

	100	10	1
	6	8	7
+	2	4	8
<hr/>			
	9	3	5
<hr/>			
	1	1	



A8e: Column Addition

3

	100	10	1
	7	3	8
+	5	2	4
<hr/>			
	12	6	2
<hr/>			
	1		1



A8f: Column Addition

4

$$\begin{array}{r} 4873 \\ + 3762 \\ \hline 8635 \\ \hline \end{array}$$

1 1



A8g: Column Addition

5

$$\begin{array}{rcccccc} 7 & 8 & 7 & 5 & 6 & 7 \\ + & 4 & 4 & 6 & 2 & 7 & 8 \\ \hline 1 & 2 & 3 & 3 & 8 & 4 & 5 \\ \hline 1 & 1 & 1 & & 1 & 1 & \end{array}$$



A8h: Column Addition

5

$$\begin{array}{r} 1 \text{ } \frac{1}{10} \\ 4.8 \\ + 3.8 \\ \hline 8.6 \\ \hline 1 \end{array}$$



A8i: Column Addition

5

$$\begin{array}{r} \begin{array}{ccc} 1 & \cdot & \frac{1}{10} & \frac{1}{100} \\ 5 & \cdot & 6 & 5 \\ + & 3 & \cdot & 2 & 9 \\ \hline 8 & \cdot & 9 & 4 \\ \hline & & & 1 \end{array} \end{array}$$



A8j: Column Addition

5

$$\begin{array}{r} \begin{array}{ccc} 10 & 1 & \frac{1}{10} \end{array} \\ 76.7 \\ + 58.5 \\ \hline 135.2 \\ \hline \begin{array}{ccc} 1 & 1 & 1 \end{array} \end{array}$$



A8k: Column Addition

5

With Money

$$\begin{array}{r} \text{€}38.25 \\ + \text{€}27.46 \\ \hline \text{€}65.71 \end{array}$$

1 1



A81: Column Addition

5

With Decimals

$$73.4 + 5.67 = 79.07$$

10	1	■	$\frac{1}{10}$	$\frac{1}{100}$
7	3	.	4	
+	5	.	6	7
<hr/>				
7	9	.	0	7
<hr/>				
1				

