Addition Strategies

43		Calculation & Vocabulary
45	A1	Objects & Pictures
47	A2	Counting On
51	A3	Forwards Jump
59	A4	Partitioning
66	A5	Partition Jot
77	A6	Part/Whole
85	A7	Expanded Column
91	A8	Column Addition

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Addition

Addition Strategies

- Calculation & Vocabulary
- A1 Objects & Pictures
- A2 Counting On
- A3 Forwards Jump
- A4 Partitioning
- A5 Partition Jot
- A6 Partition Jot
- A7 Column Addition

Y1

A1: Objects & Pictures

"In the PE cupboard there were 3 red footballs and 5 blue footballs. How many footballs altogether? Answer: 8"

3 + 5 = 8

A1a: Largest Number 1st

"In the PE cupboard there were 3 red footballs and 5 blue footballs. How many footballs altogether? Answer: 8"

5 + 3 = 8

A2: Counting On

+1 +1 +1

5 6 7 8

5 + 3 = 8

A2a: Counting On Bridging 10

+2 +3

+1 +1 +1 +1 +1

8 9 10 11 12 13

8 + 5 = 13

A6: Part/Whole Partitioning One Addend

8 + 5 = 13

2 3

10 + 3 = 13

Addition Calculation

4 + 2 = 6

(add) (equals)

addend addend total sum

Addition Vocabulary

increase, add, total, plus, addition, more, count on, sum, altogether

Y2

A2c: Counting On Bridging 10s Number

+3 +3

+1 +1 +1 +1 +1 +1 +1

57 58 59 60 61 62 63

57 + 6 = 63

A2b: Counting On Bridging 10

+2 +5

+1 +1 +1 +1 +1 +1 +1

18 19 20 21 22 23 24 25

18 + 7 = 25

A6: Part/Whole Partitioning One Addend

18 + 7 = 25

2 5

20 + 5 = 25

A3: Forwards Jump

43 + 24 = 67

+20 +4

+10 +10 +1 +1 +1 +1

43 53 63 64 65 66 67

A4: Partitioning

43 + 24 = 67

40 + 20 = 60

3 + 4 = 7

67

A5: Partition Jot

43 + 24 = 67

60 + 7

A7: Expanded Column Addition

10 1

43

+ 24

7

60

67

A8: Column Addition

10 1

43

+ 24

67

Y2

A3a: Forwards Jump

57 + 25 = 82

+20 +5

57 77 82

A4a: Partitioning

57 + 25 = 82

50 + 20 = 70

7 + 5 = 12

82

A5a: Partition Jot

57 + 25 = 82

70 + 12

A6a: Part/Whole Partitioning One Addend

57 + 25 = 82

3 22

60 + 22 = 82

A7a: Expanded Column Addition

10 1

57

+ 25

12

70

82

A8a: Column Addition

10 1

57

+ 25

82

1

Y2/3

A3b: Forwards Jump

75 + 52 = 127

+50 +2

75 125 127

A4b: Partitioning

75 + 52 = 127

70 + 50 = 120

5 + 2 = 7

127

A5b: Partition Jot

75 + 52 = 127

120 + 7

A6b: Part/Whole Partitioning One Addend

75 + 52 = 127

25 27

100 + 27 = 127

A7b: Expanded Column Addition

10 1

75

+ 52

7

120

127

A8b: Column Addition

100 10 1

75

+ 52

127

1

Y2/3

A3c: Forwards Jump

86 + 48 = 134

+40 +8

86 126 134

A4c: Partitioning

86 + 48 = 134

80 + 40 = 120

6 + 8 = 14

134

A5c: Partition Jot

86 + 48 = 134

120 + 14

A6c: Part/Whole Partitioning One Addend

86 + 48 = 134

14 34

100 + 34 = 134

A7c: Expanded Column Addition

100 10 1

86

+ 48

14

120

134

A8c: Column Addition

100 10 1

86

+ 48

134

1 1

Y3

A3d: Forwards Jump

687 + 248 = 935

+200 +40 +8

687 887 927 935

A4d: Partitioning

687 + 248 = 935

600 + 200 = 800

80 + 40 = 120

7 + 8 = 15

935

A5d: Partition Jot

687 + 248 = 935

800 + 120 + 15

A6d: Part/Whole Partitioning One Addend

687 + 248 = 935

13 235

700 + 235 = 935

A7d: Expanded Column Addition

100 10 1

687

+ 248

15

120

800

935

A8d: Column Addition

100 10 1

687

+ 248

935

1 1

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Y3/4		**A3e: Forwards Jump** 3/4 738 + 524 = 1262 +500 +20 +4 738 1238 1258 1262	**A4e: Partitioning** 3/4 738 + 524 = 1262 700 + 500 = 1200 30 + 20 = 50 8 + 4 = 12 1262	**A5e: Partition Jot** 3/4 738 + 524 = 1262 1200 + 50 + 12		**A7e: Expanded Column Addition** 3 1000 100 10 1 738 + 524 12 50 1200 1262	**A8e: Column Addition** 3 100 10 1 738 + 524 1262 1 1	
Y4				**A5f: Partition Jot** 4 4873 + 3762 = 8635 7000 + 1500 + 130 + 5			**A8f: Column Addition** 4 4873 + 3762 8635 1 1	
Y5							**A8g: Column Addition** 5 787567 + 446278 1233845 1 1 1 1 1	
Y5		**A3h: Decimal Jump** 5 4.8 + 3.8 = 8.6 +3 +0.8 4.8 7.8 8.6	**A4h: Partitioning** 5 4.8 + 3.8 = 8.6 4 + 3 = 7 0.8 + 0.8 = 1.6 8.6	**A5h: Partition Jot** 5 4.8 + 3.8 = 8.6 7 + 1.6	**A6h: Part/Whole** Partitioning One Addend 5 4.8 + 3.8 = 8.6 0.2 3.6 5 + 3.6 = 8.6		**A8h: Column Addition** 5 1 • 1/10 4.8 + 3.8 8.6 1	
Y5		**A3i: Decimal Jump** 5 5.65 + 3.29 = 8.94 +3 +0.2 +0.09 5.65 8.65 8.85 8.94		**A5i: Partition Jot** 5 5.65 + 3.29 = 8.94 8 + 0.8 + 0.14			**A8i: Column Addition** 5 1 • 1/10 1/100 5.65 + 3.29 8.94 1	
Y5				**A5j: Partition Jot** 5 76.7 + 58.5 = 135.2 120 + 14 + 1.2	**A6j: Part/Whole** Partitioning One Addend 5 76.7 + 58.5 = 135.2 75.2 1.5 75.2 + 60 = 135.2		**A8j: Column Addition** 5 10 1 • 1/10 76.7 + 58.5 135.2 1 1 1	
Y5				**A5k: Partition Jot** 5 £38.25 + £27.46 = £65.71 £65.00 + £0.71			**A8k: Column Addition** With Money 5 £38.25 + £27.46 £65.71 1 1	
							A8l: Column Addition With Decimals 5 73.4 + 5.67 = 79.07 10 1 • 1/10 1/100 73.4 + 5.67 79.07 1	

Progression Overviews

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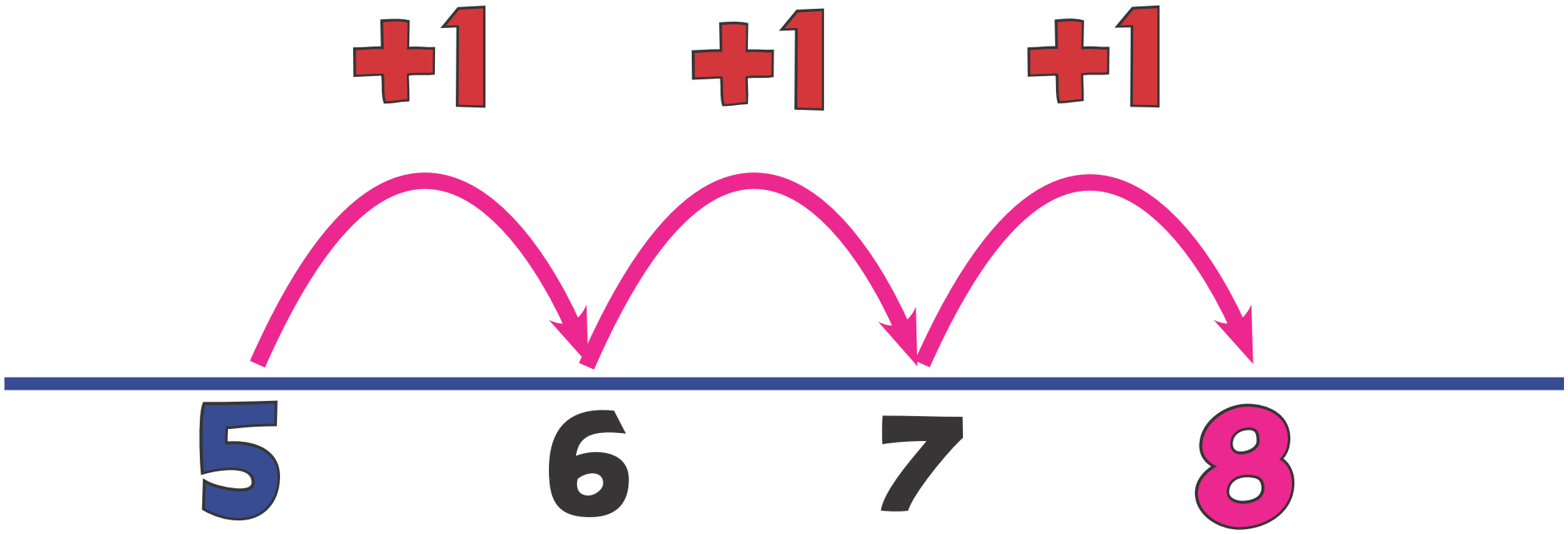
A2: Counting On

1



$$5 + 3 = 8$$

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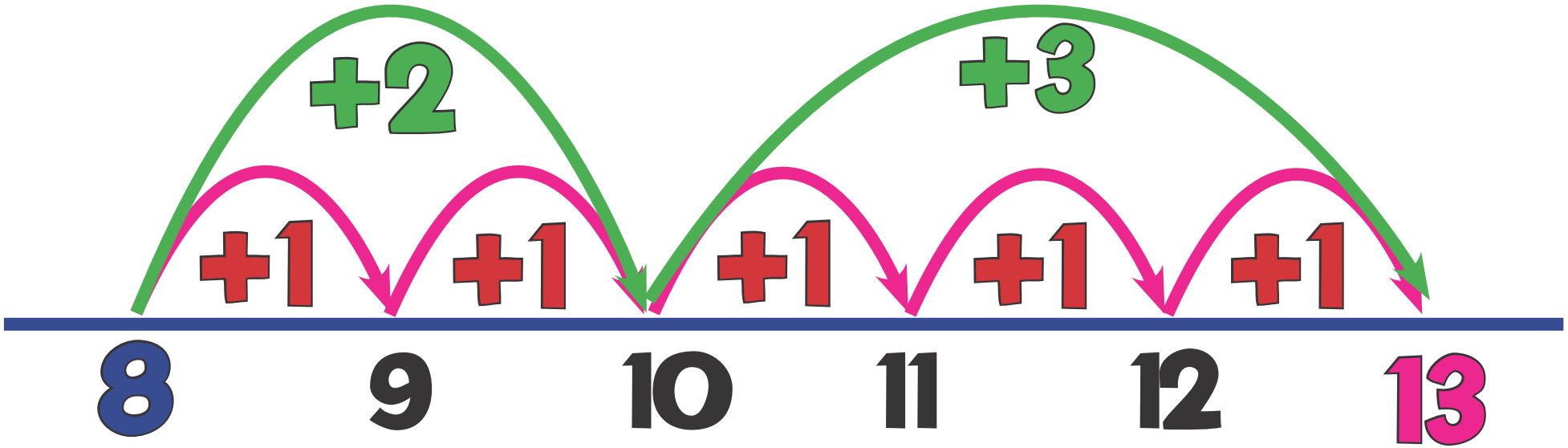
A2a: Counting On

1

Bridging 10



$$8 + 5 = 13$$

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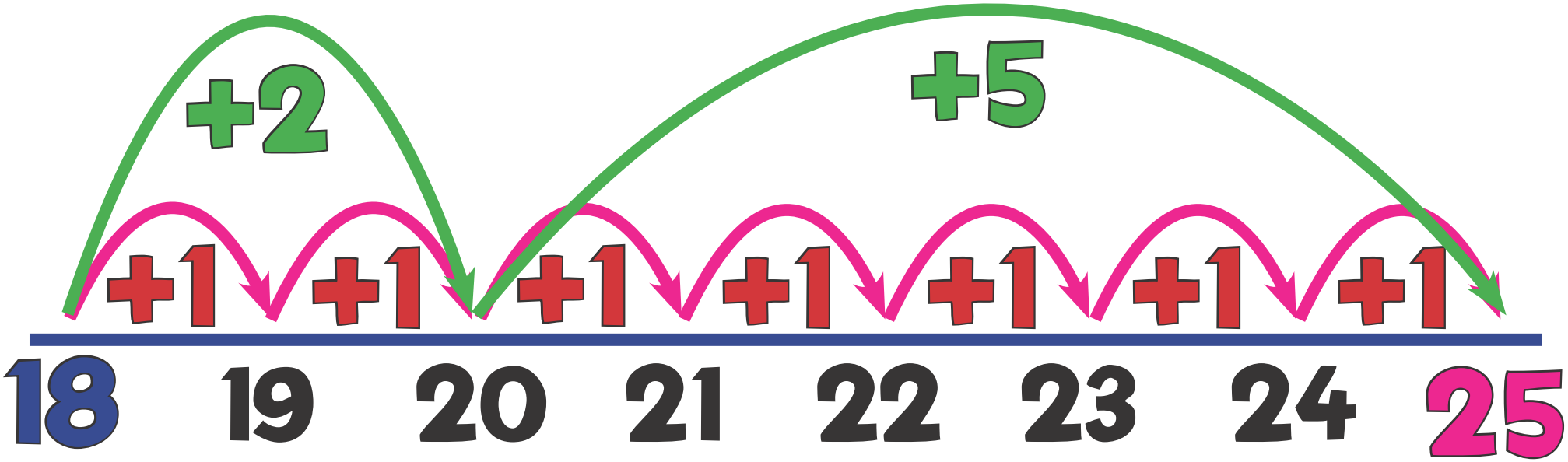
A2b: Counting On

1

Bridging 10



18 + 7 = 25

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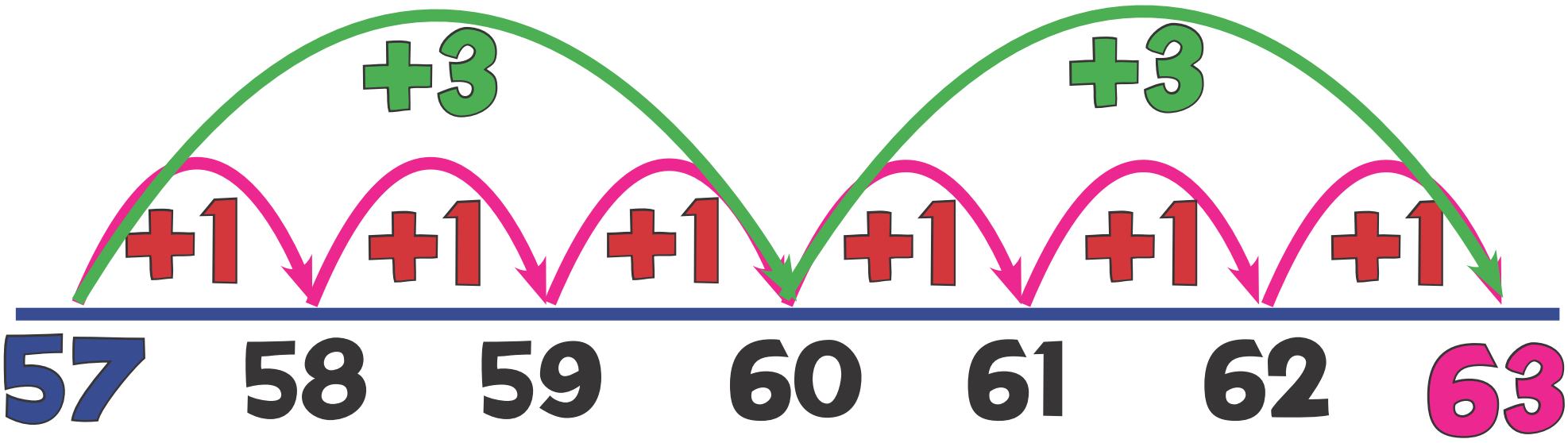
A2c: Counting On

2

Bridging 10s Number



57 + 6 = 63

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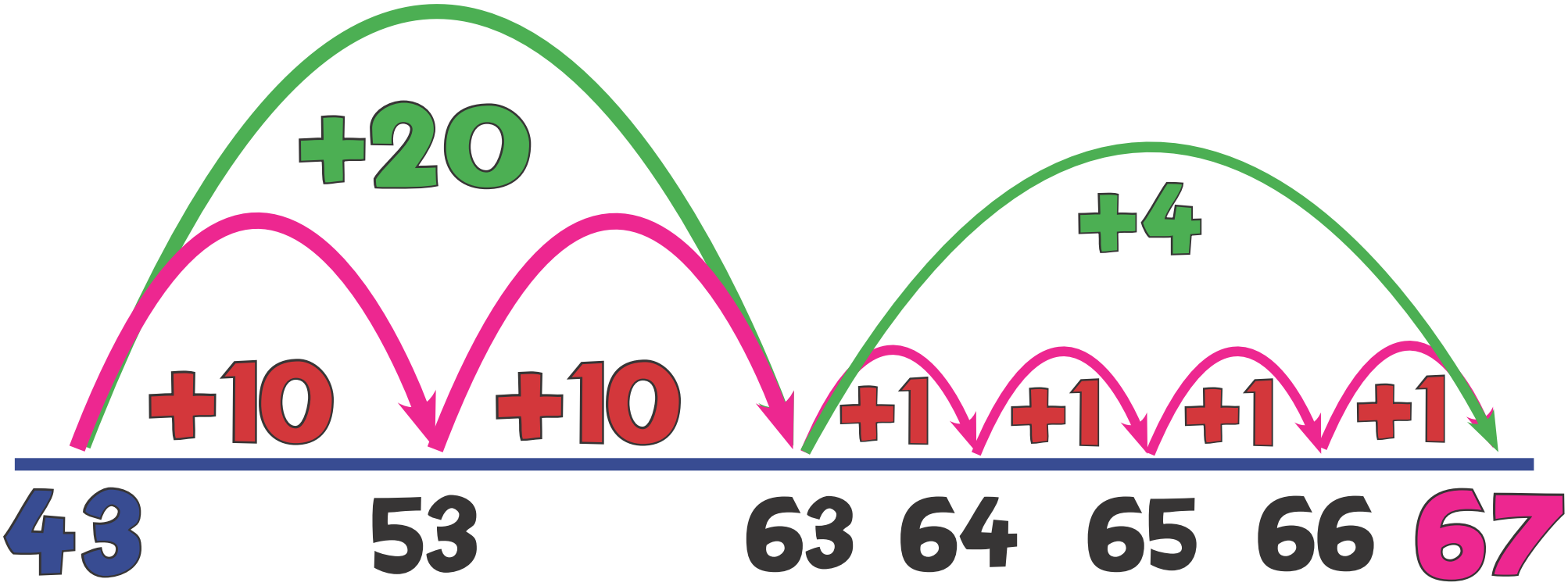
A3: Forwards Jump

2

43 + 24 = 67



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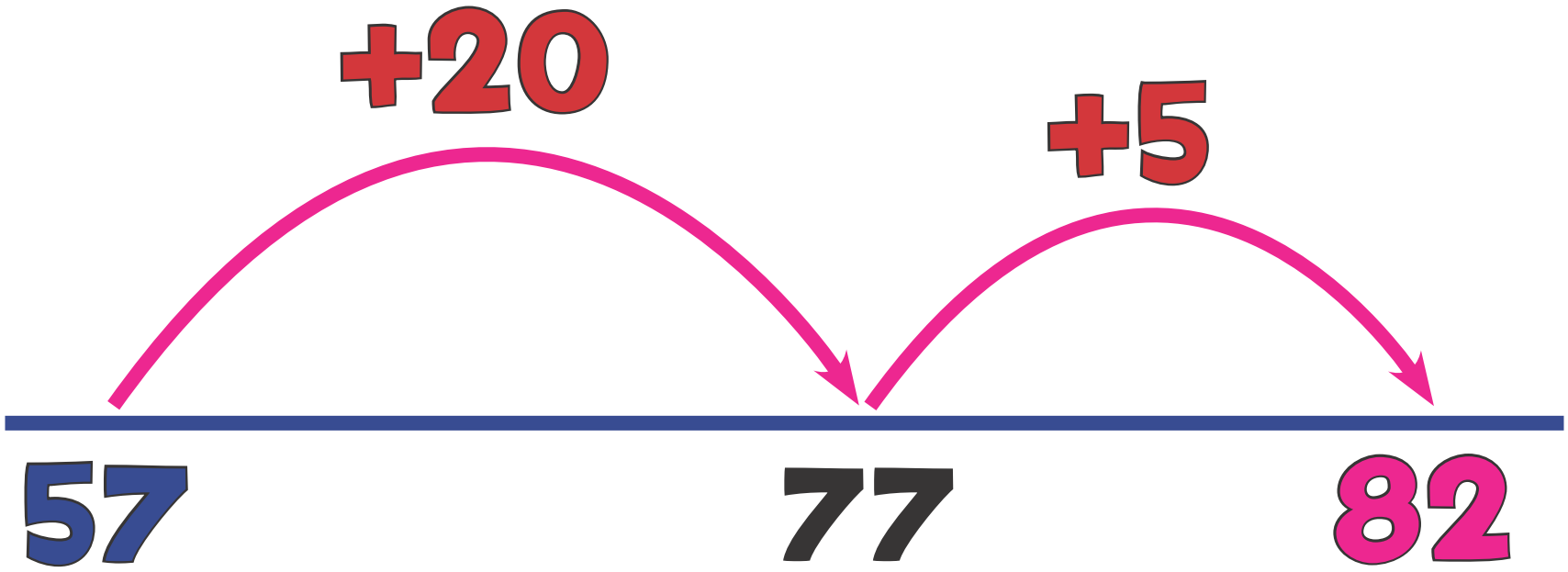
A3a: Forwards Jump

2

57 + 25 = 82



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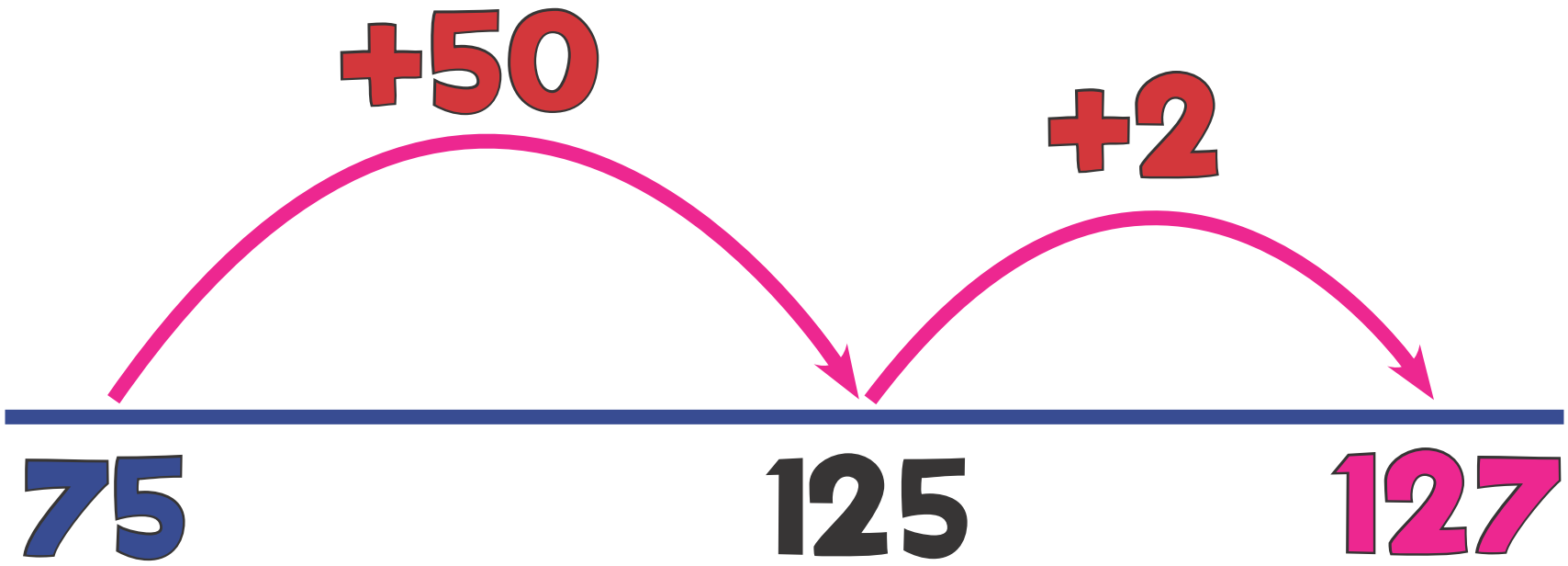
A3b: Forwards Jump

2/3

75 + 52 = 127



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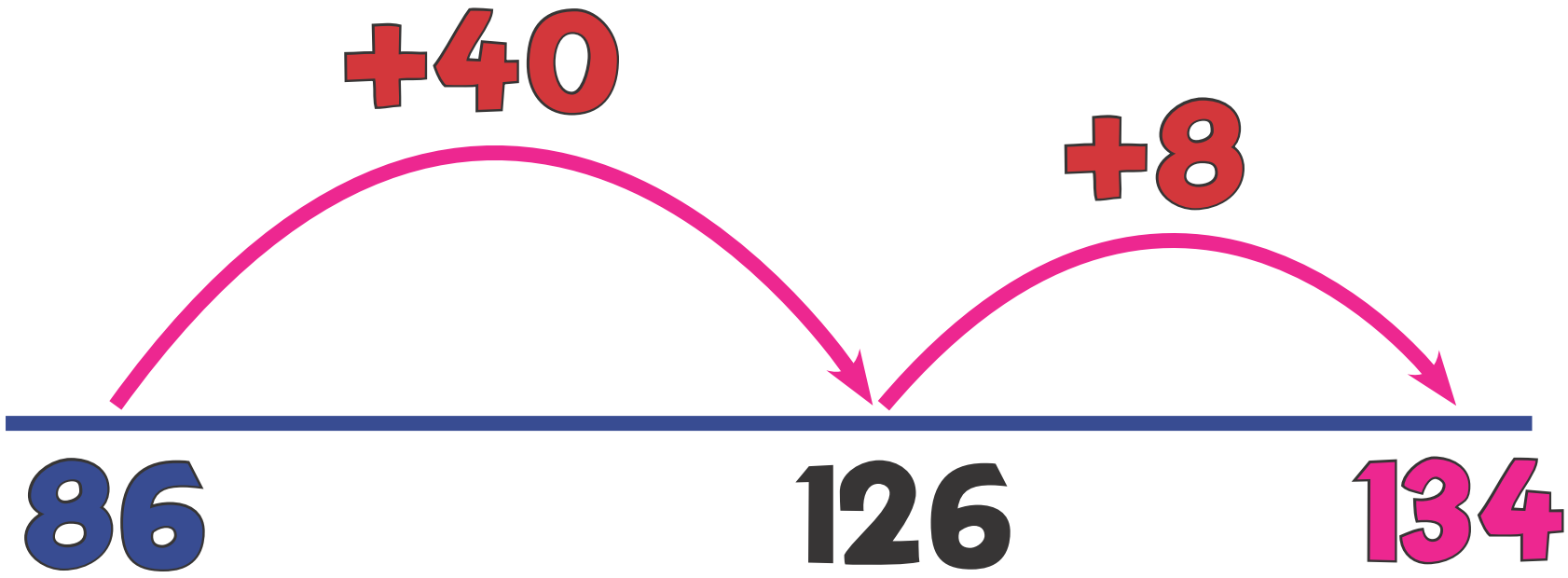
A3c: Forwards Jump

2/3

86 + 48 = 134



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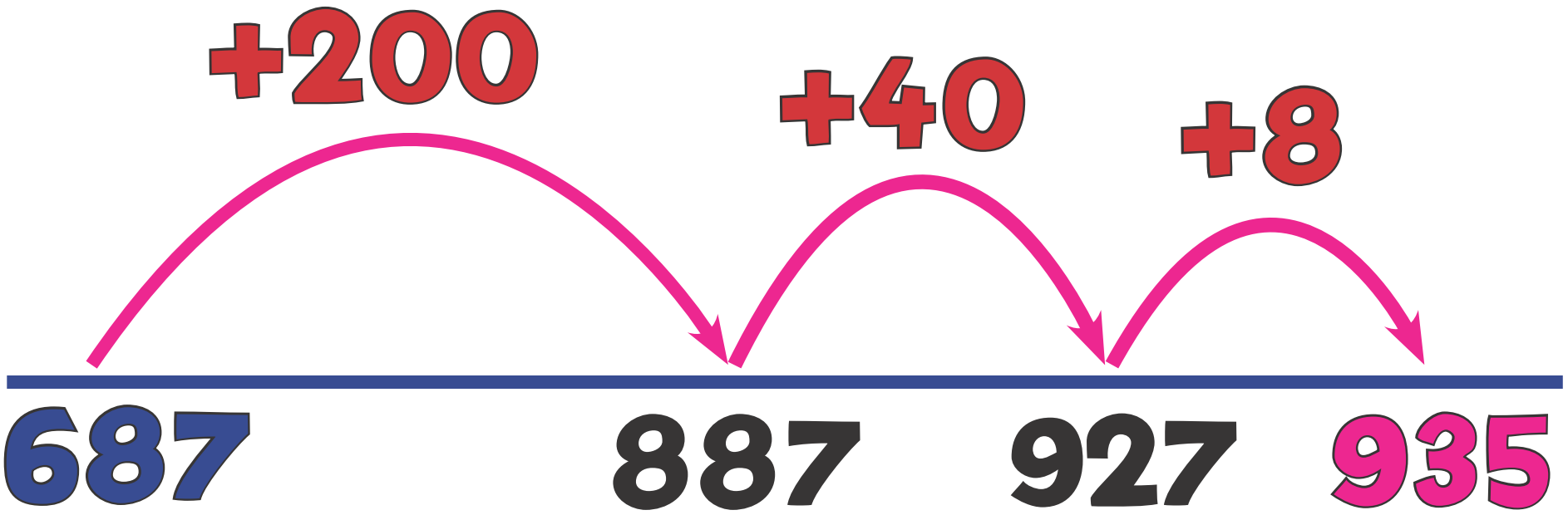
A3d: Forwards Jump

3

687 + 248 = 935



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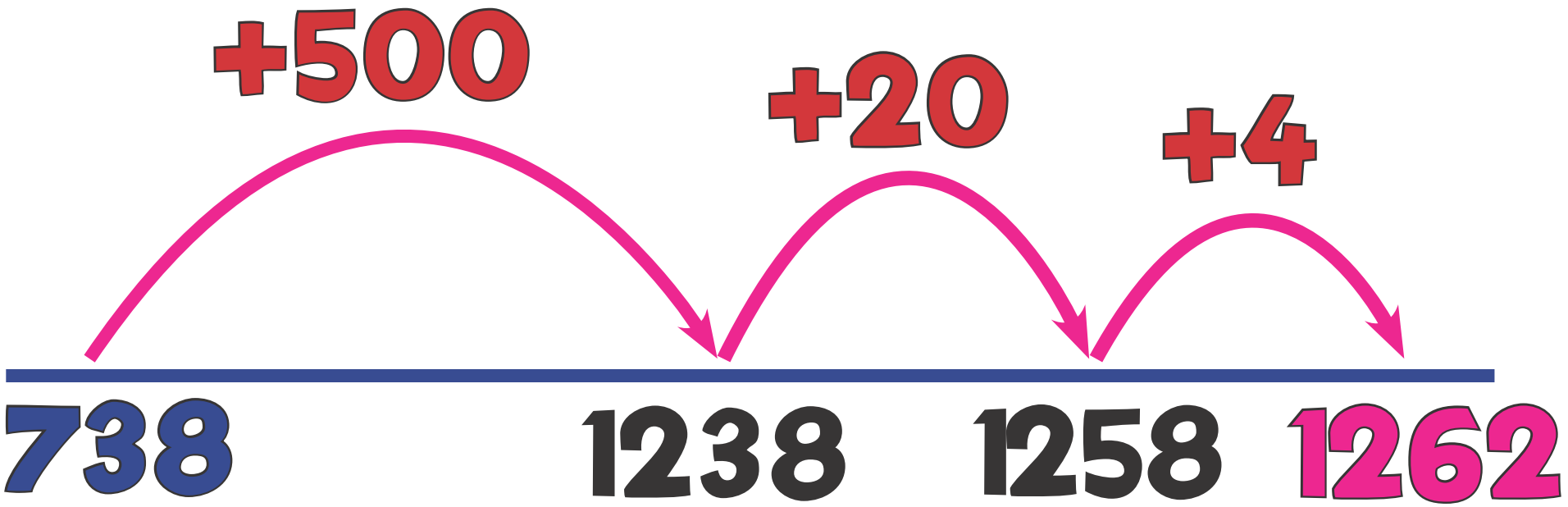
A3e: Forwards Jump

3/4

738 + 524 = 1262



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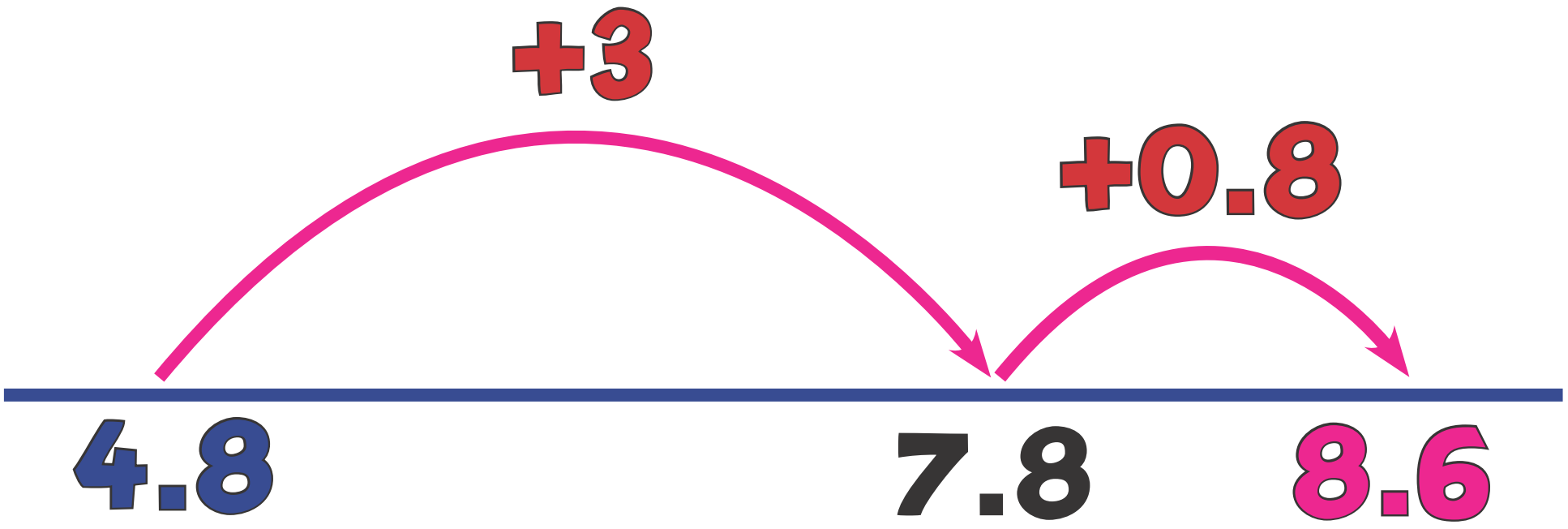
A3h: Decimal Jump

5

$$4.8 + 3.8 = 8.6$$



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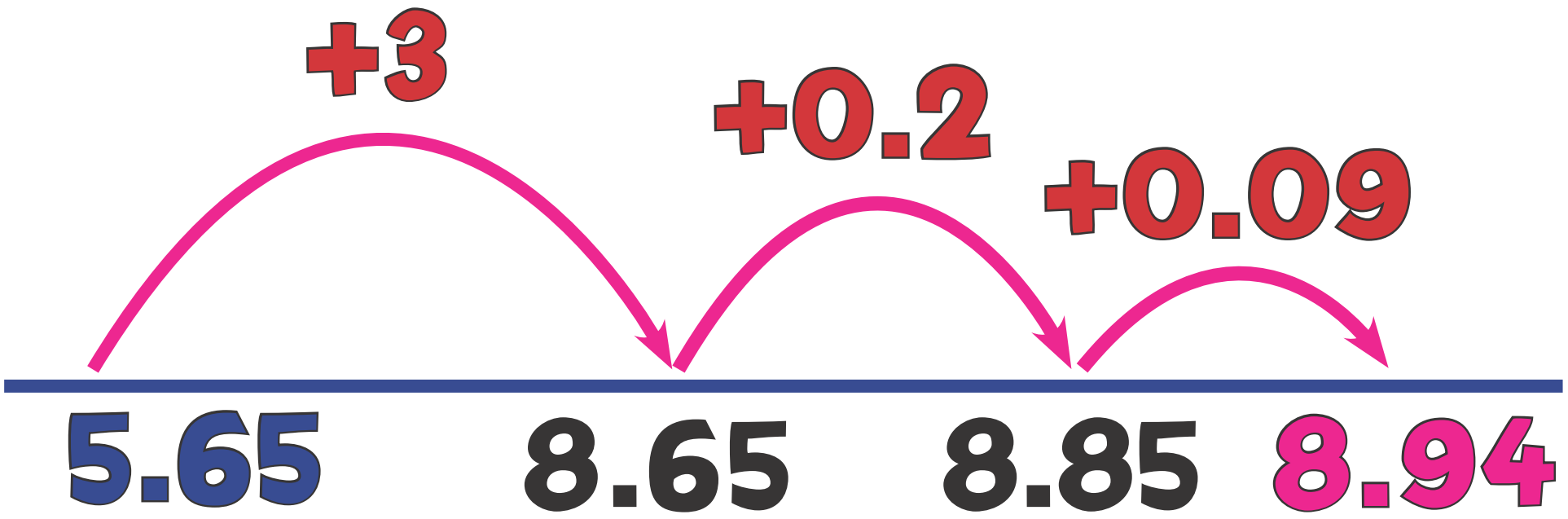
A3i: Decimal Jump

5

5.65 + 3.29 = 8.94



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A4: Partitioning

2

$$43 + 24 = 67$$

$$40 + 20 = 60$$

$$3 + 4 = 7$$

$$67$$

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A4a: Partitioning

2

$$57 + 25 = 82$$

$$50 + 20 = 70$$

$$7 + 5 = 12$$

$$82$$

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A4b: Partitioning

2/3

$$75 + 52 = 127$$

$$70 + 50 = 120$$

$$5 + 2 = 7$$

$$120 + 7 = 127$$

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A4c: Partitioning

2/3

$$86 + 48 = 134$$

$$80 + 40 = 120$$

$$6 + 8 = 14$$

$$134$$

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A4d: Partitioning

3

687 + 248 = 935

600 + 200 = 800

80 + 40 = 120

7 + 8 = 15

935

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A4e: Partitioning

3/4

738 + 524 = 1262

700 + 500 = 1200

30 + 20 = 50

8 + 4 = 12

1262

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A4h: Partitioning

5

$$4.8 + 3.8 = 8.6$$

$$4 + 3 = 7$$

$$0.8 + 0.8 = 1.6$$

$$8.6$$

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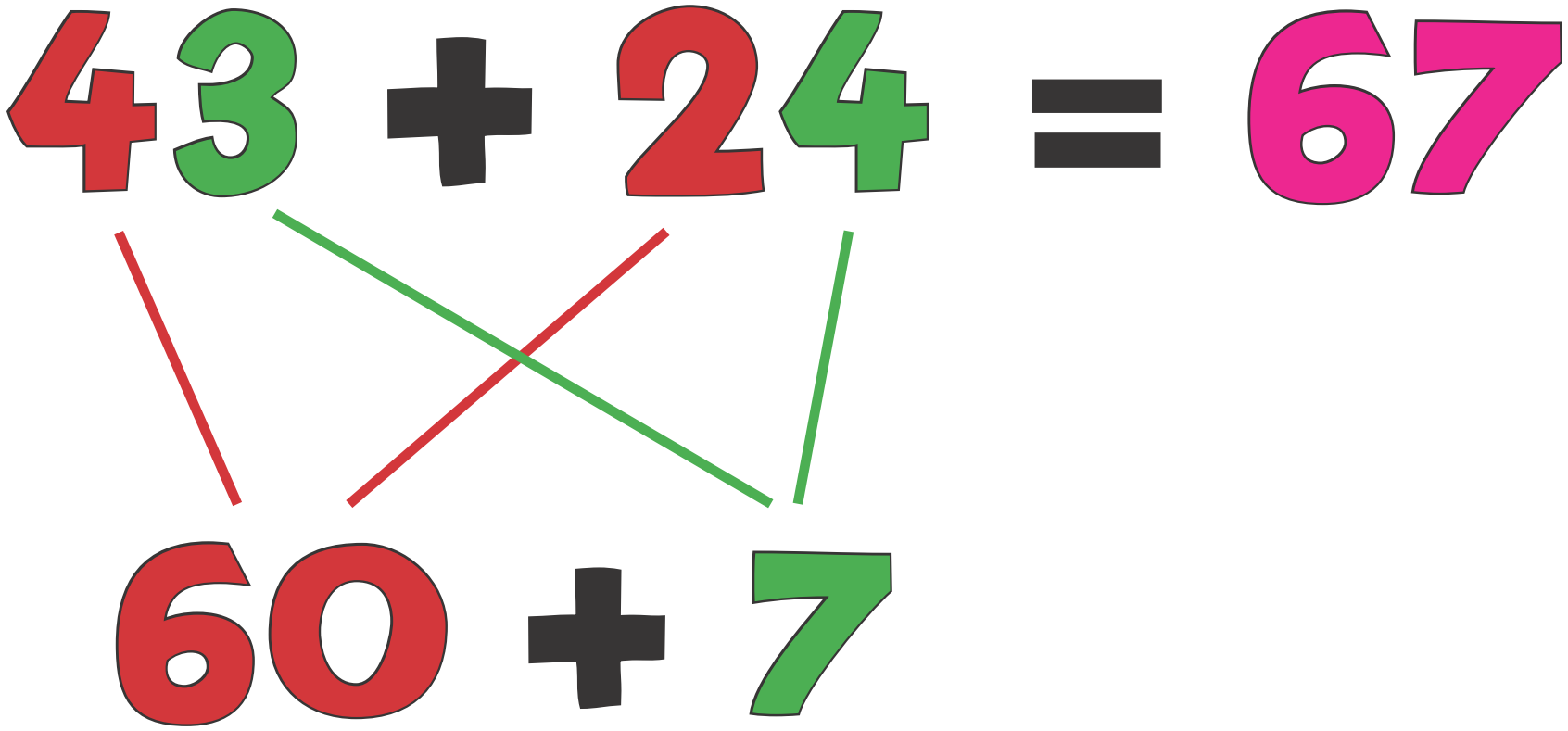
A5: Partition Jot

2



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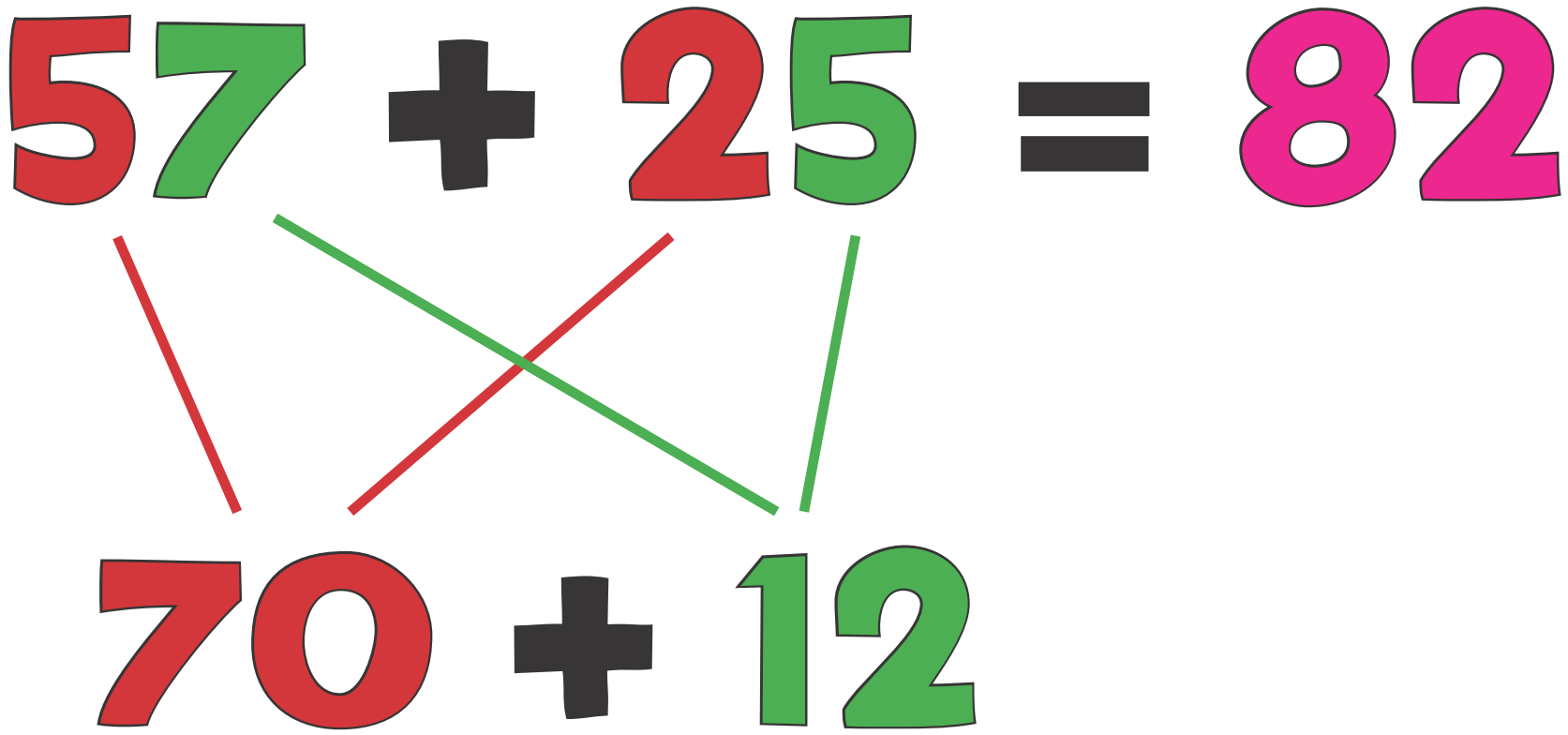
A5a: Partition Jot

2



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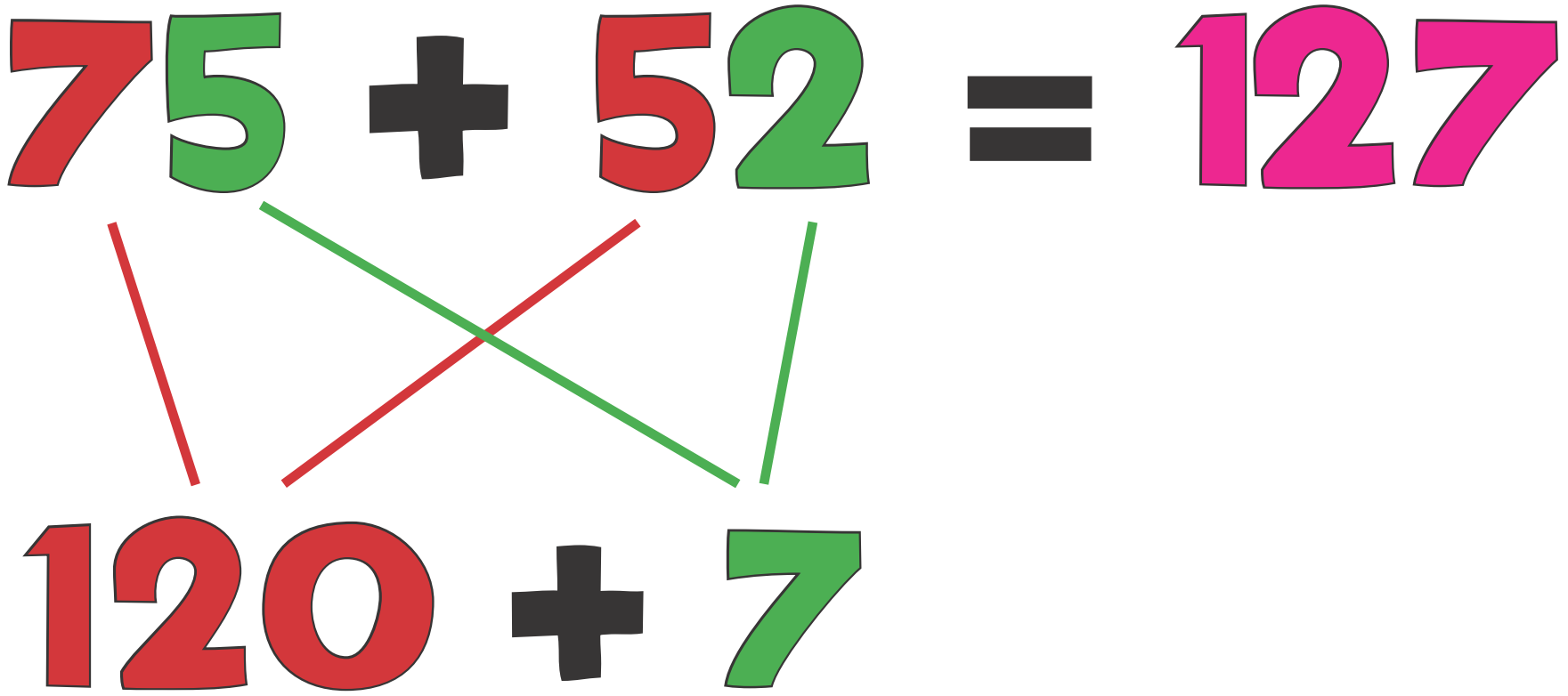
A5b: Partition Jot

2/3



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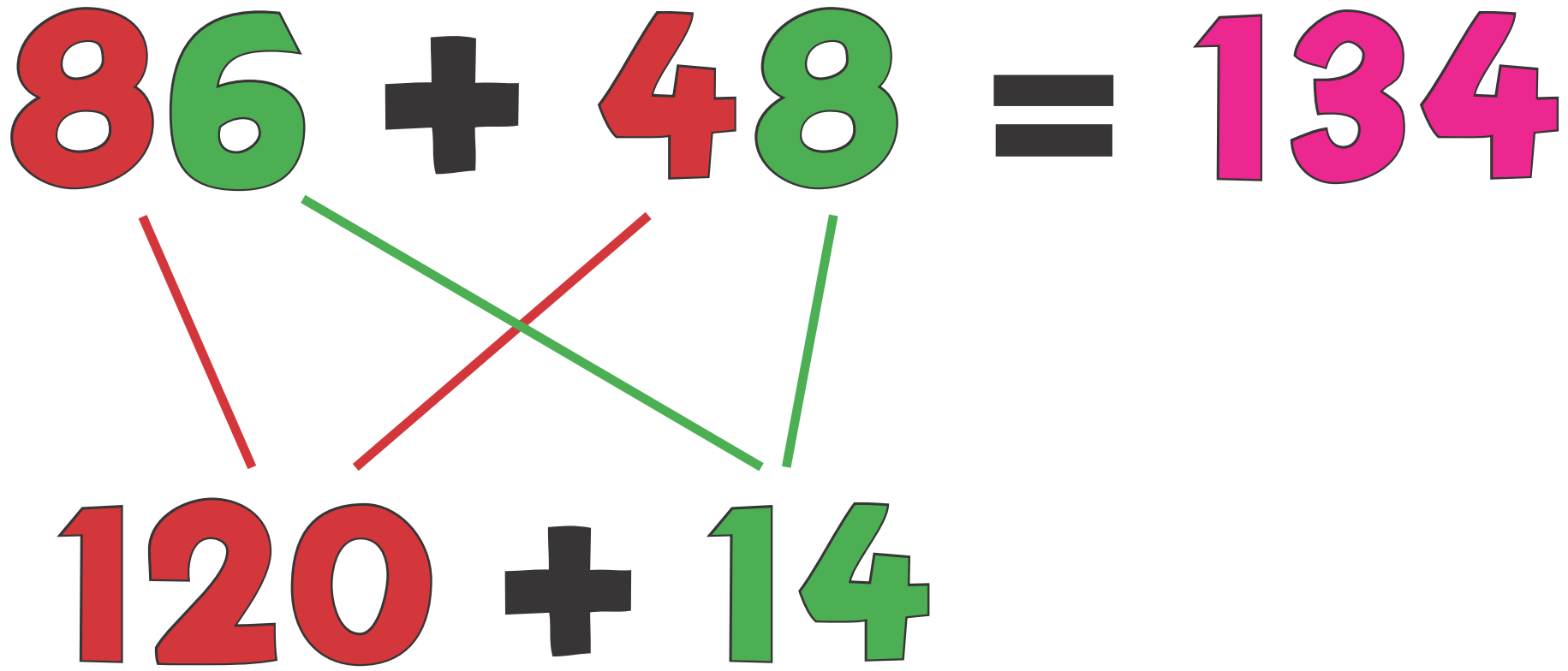
A5c: Partition Jot

2/3



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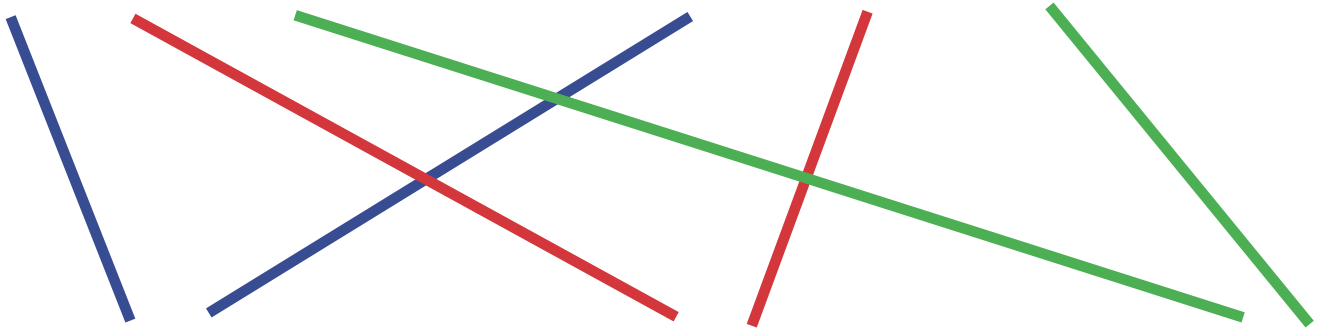
A5d: Partition Jot

3

687 + 248 = 935



800 + 120 + 15

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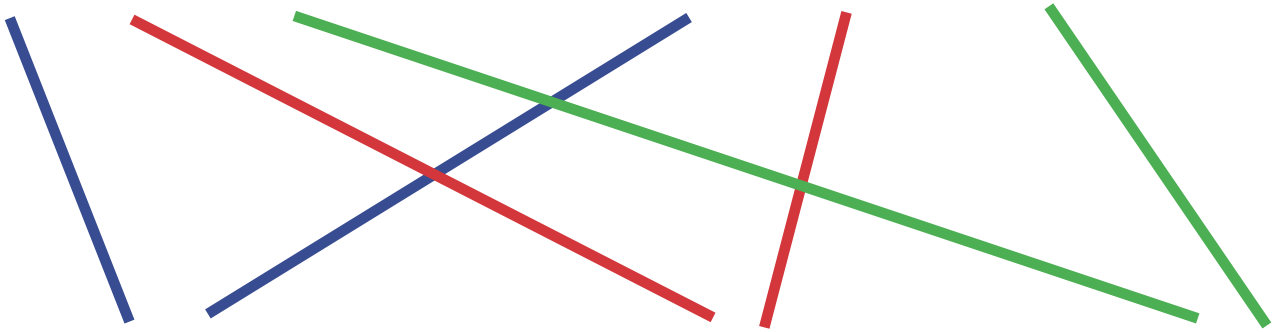
A5e: Partition Jot

3/4

738 + 524 = 1262



1200 + 50 + 12

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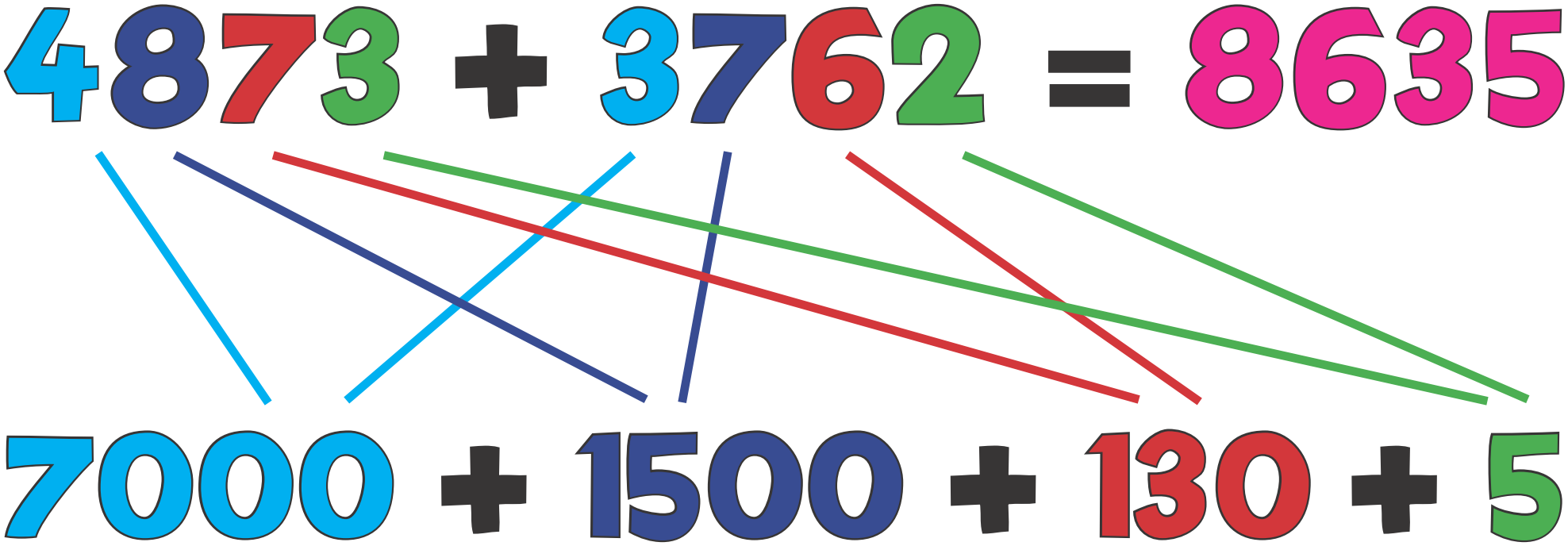
A5f: Partition Jot

4



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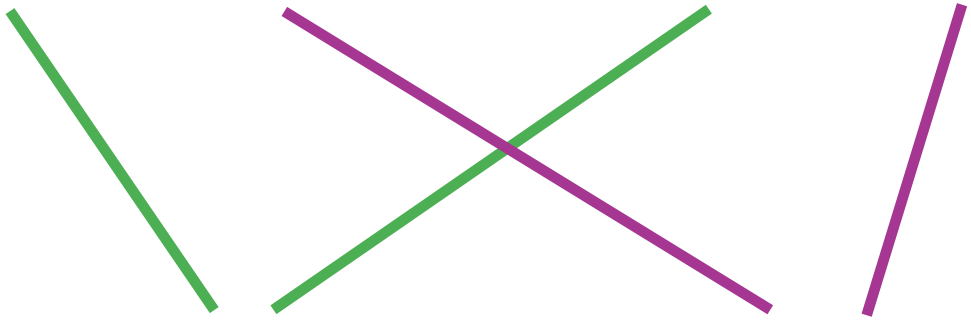
A5h: Partition Jot

5

$$4.8 + 3.8 = 8.6$$



$$7 + 1.6$$

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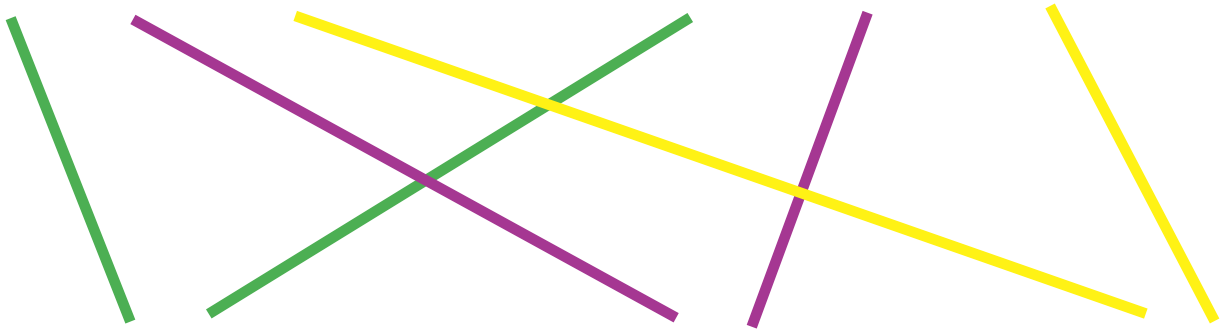
A5i: Partition Jot

5

$$5.65 + 3.29 = 8.94$$



$$8 + 0.8 + 0.14$$

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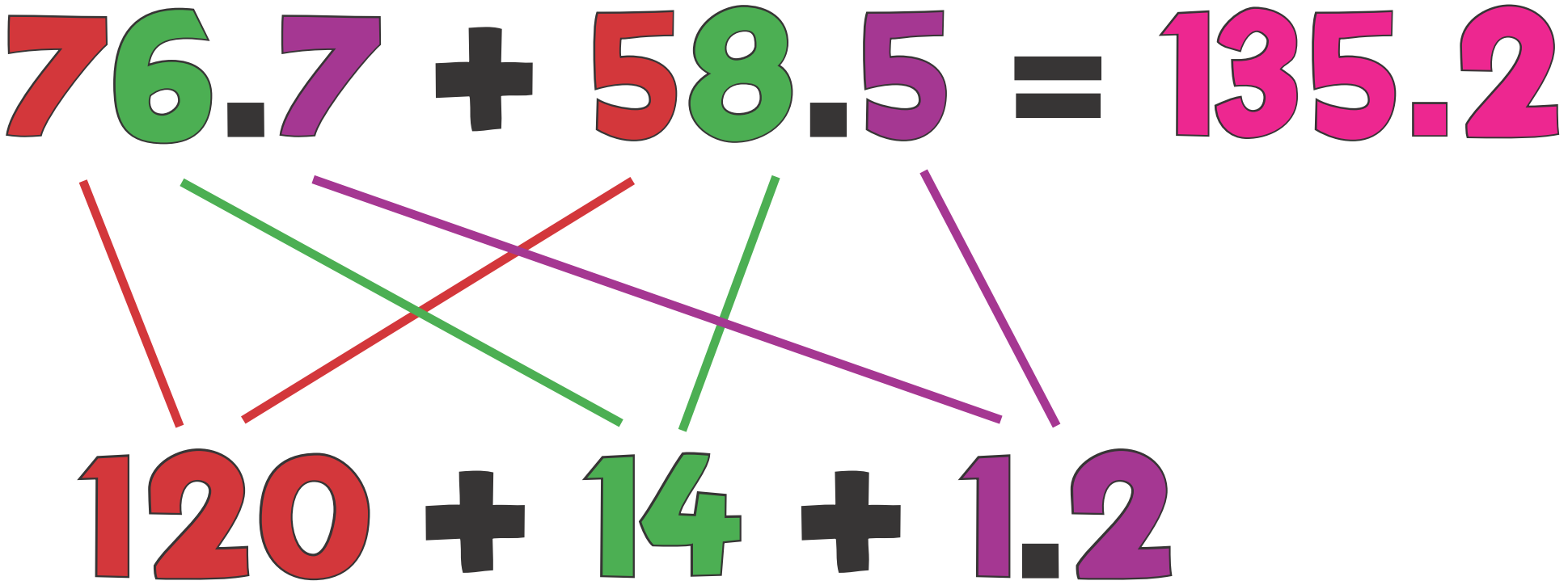
A5 j: Partition Jot

5



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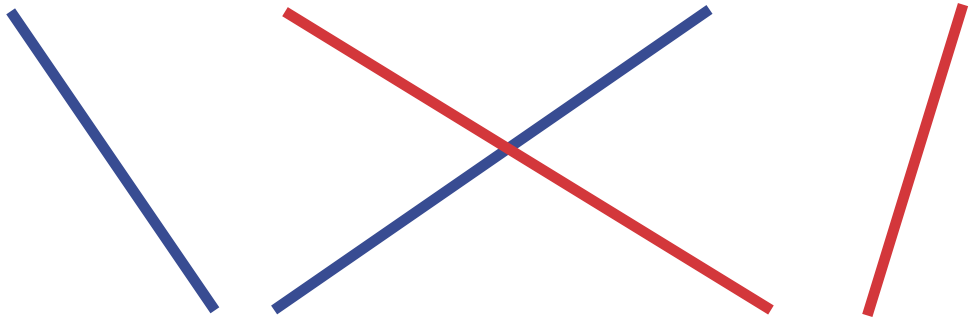
A5k: Partition Jot

5

£38.25 + £27.46 = £65.71



£65.00 + £0.71

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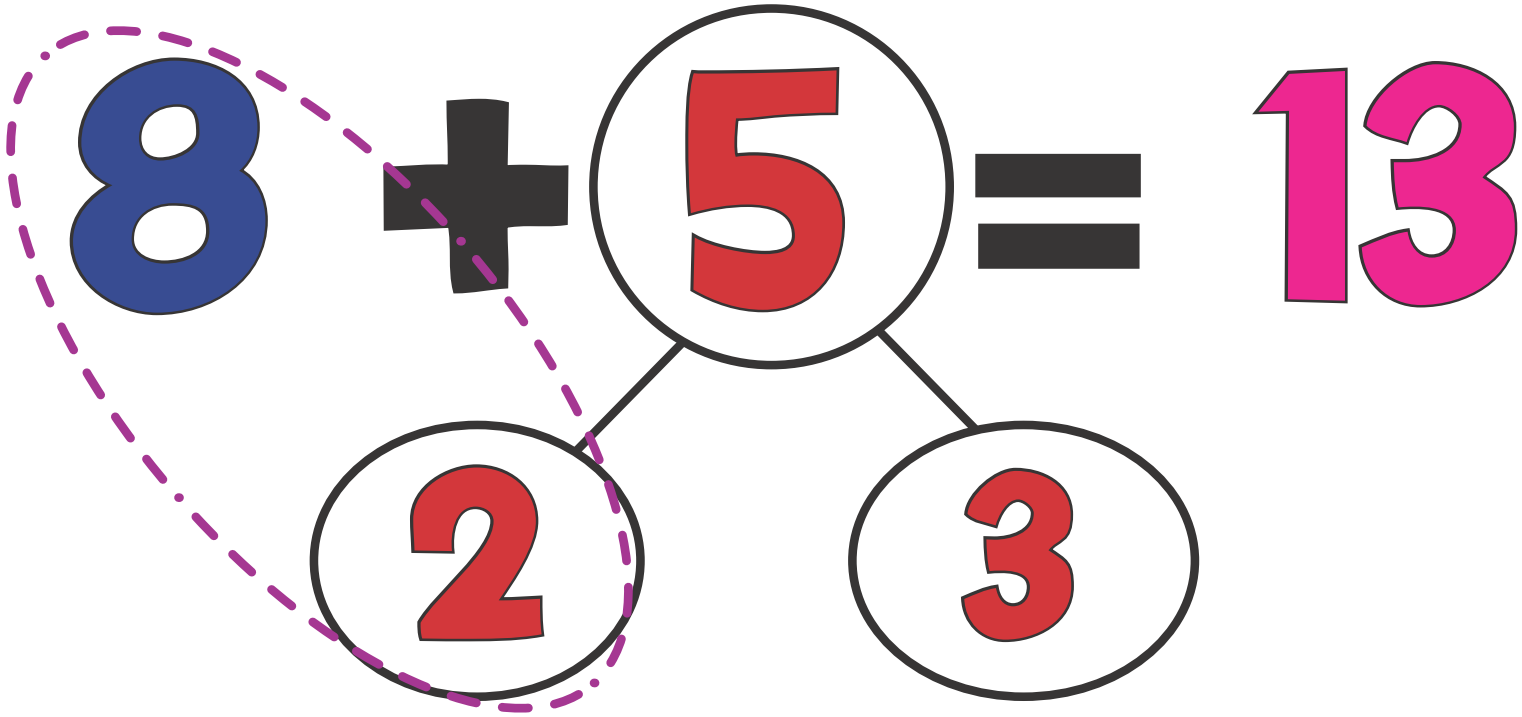
A6: Part/Whole

1

Partitioning One Addend



10 + 3 = 13

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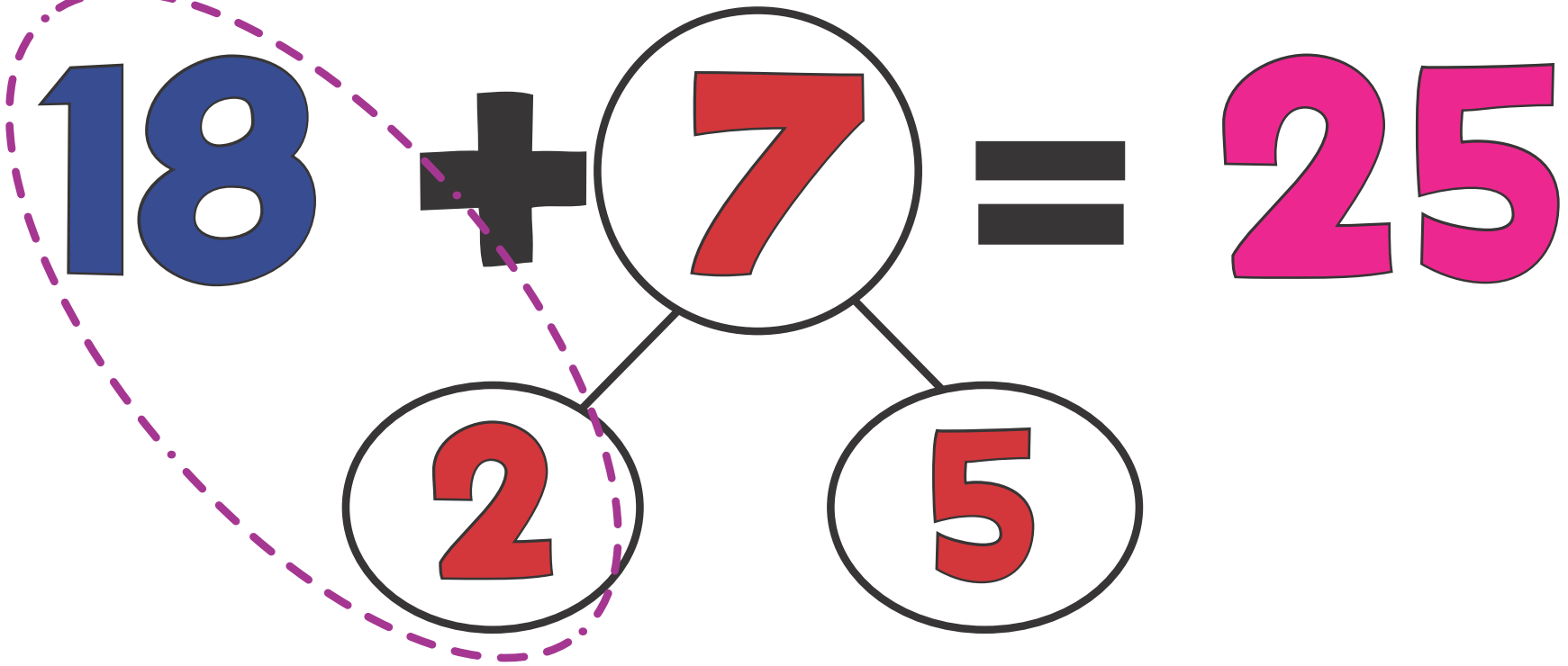
A6: Part/Whole

1

Partitioning One Addend



20 + 5 = 25

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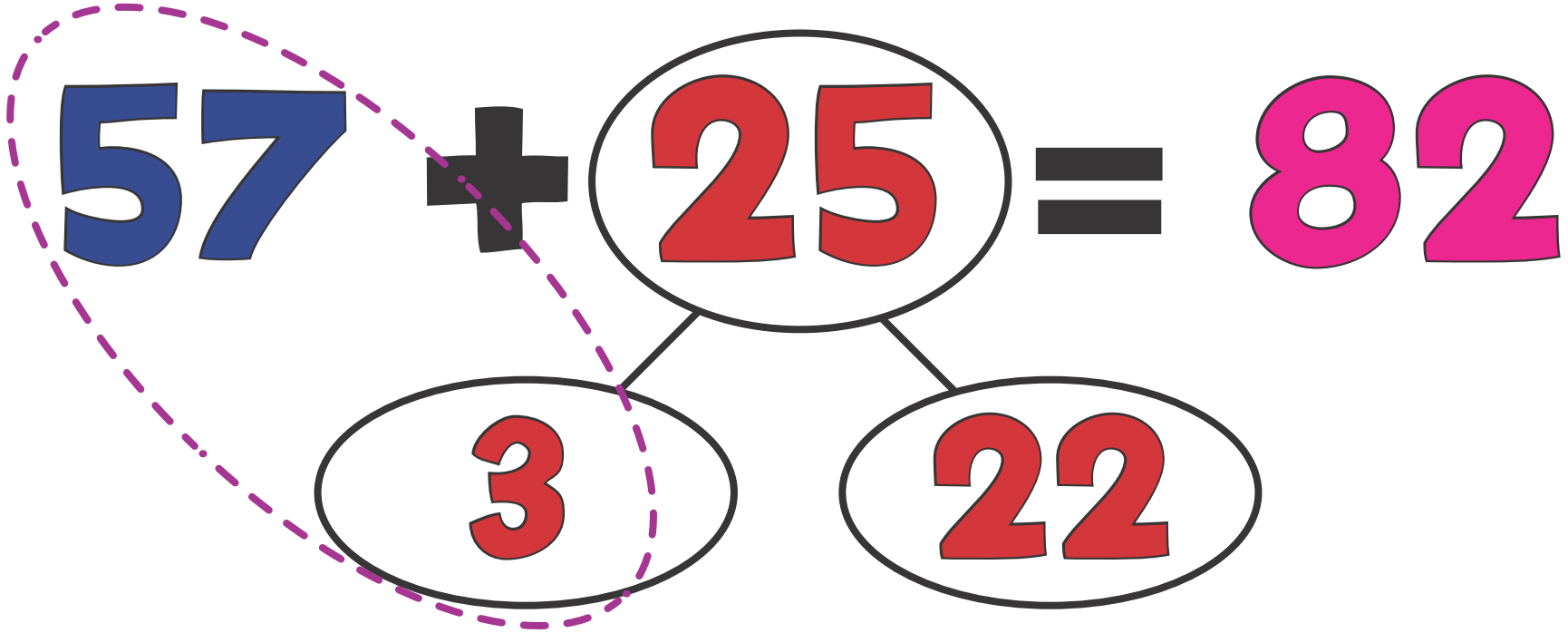
A6a: Part/Whole

2

Partitioning One Addend



60 + 22 = 82

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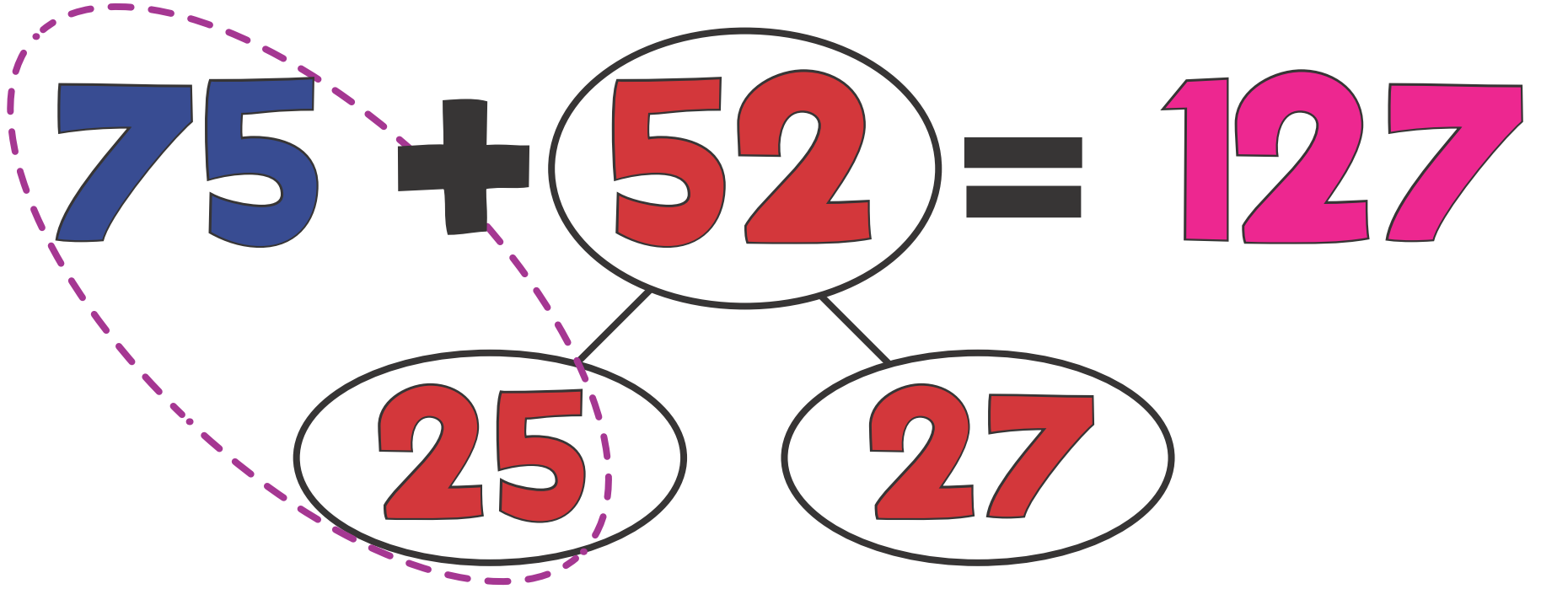
A6b: Part/Whole

2/3

Partitioning One Addend



100 + 27 = 127

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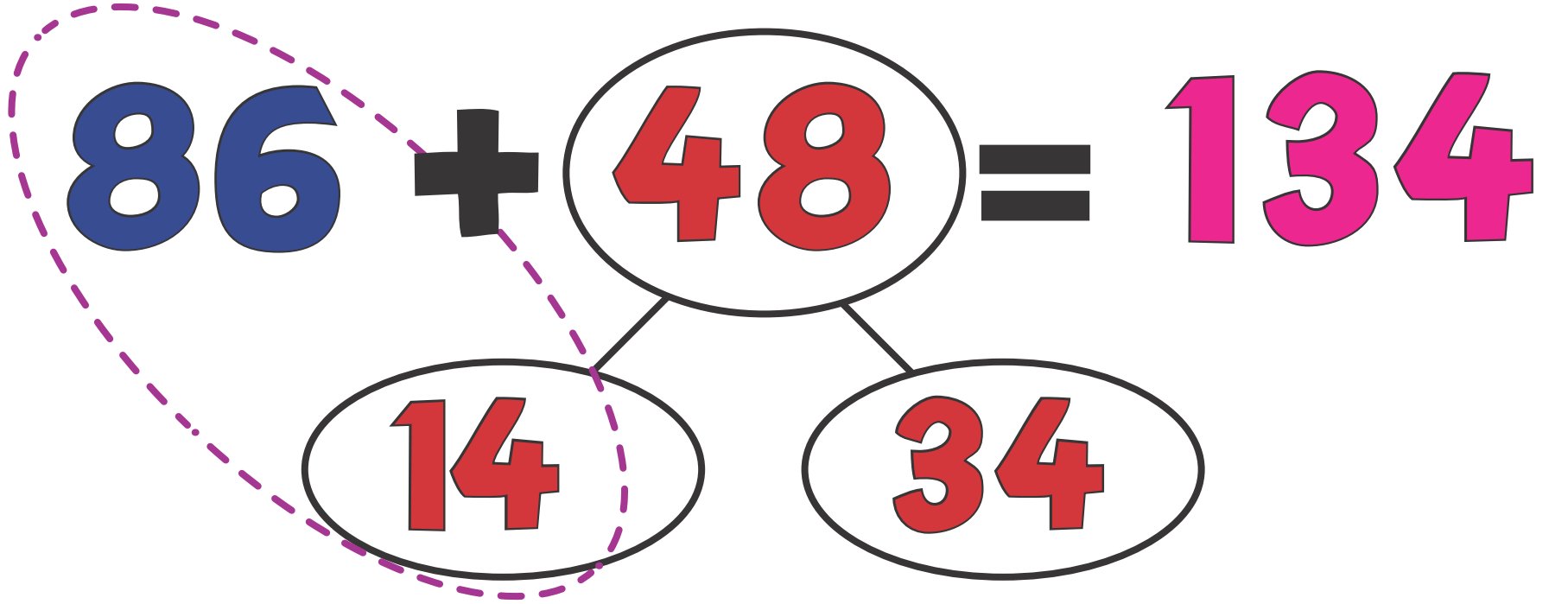
A6c: Part/Whole

2/3

Partitioning One Addend



100 + 34 = 134

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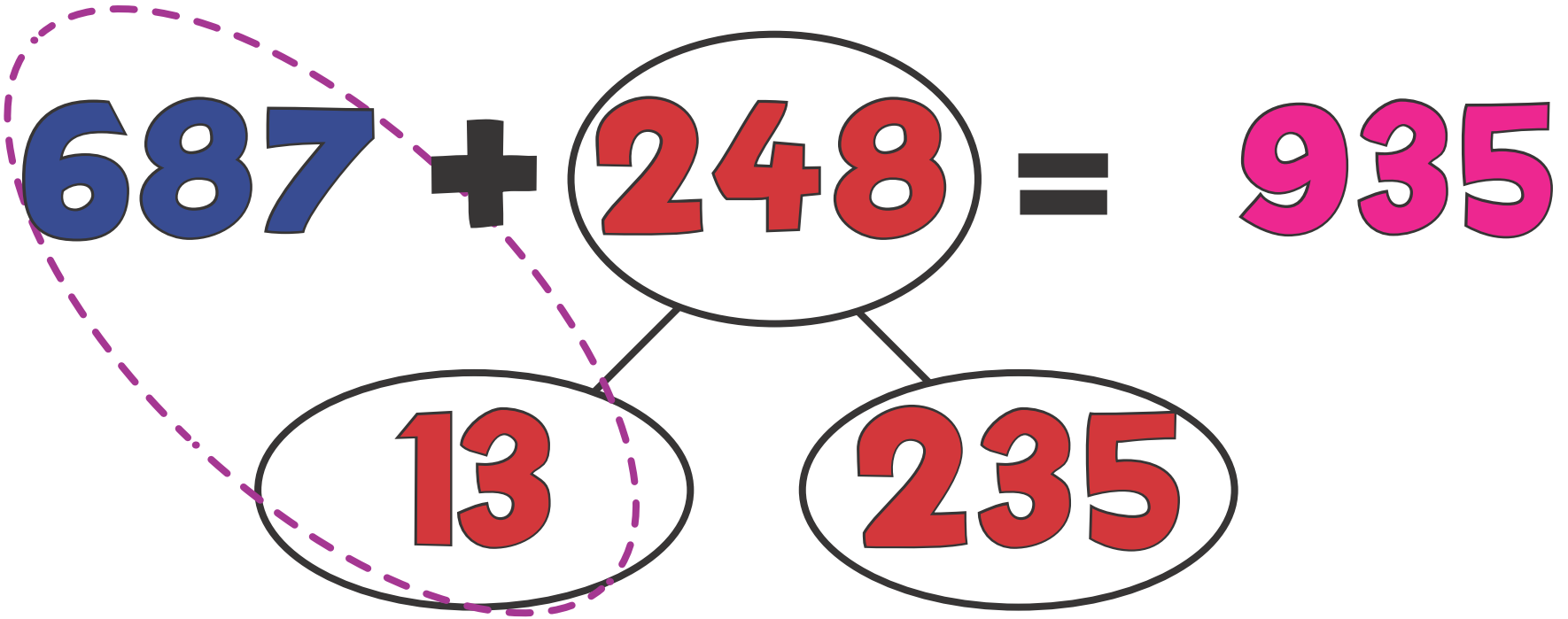
A6d: Part/Whole

3

Partitioning One Addend



700 + 235 = 935

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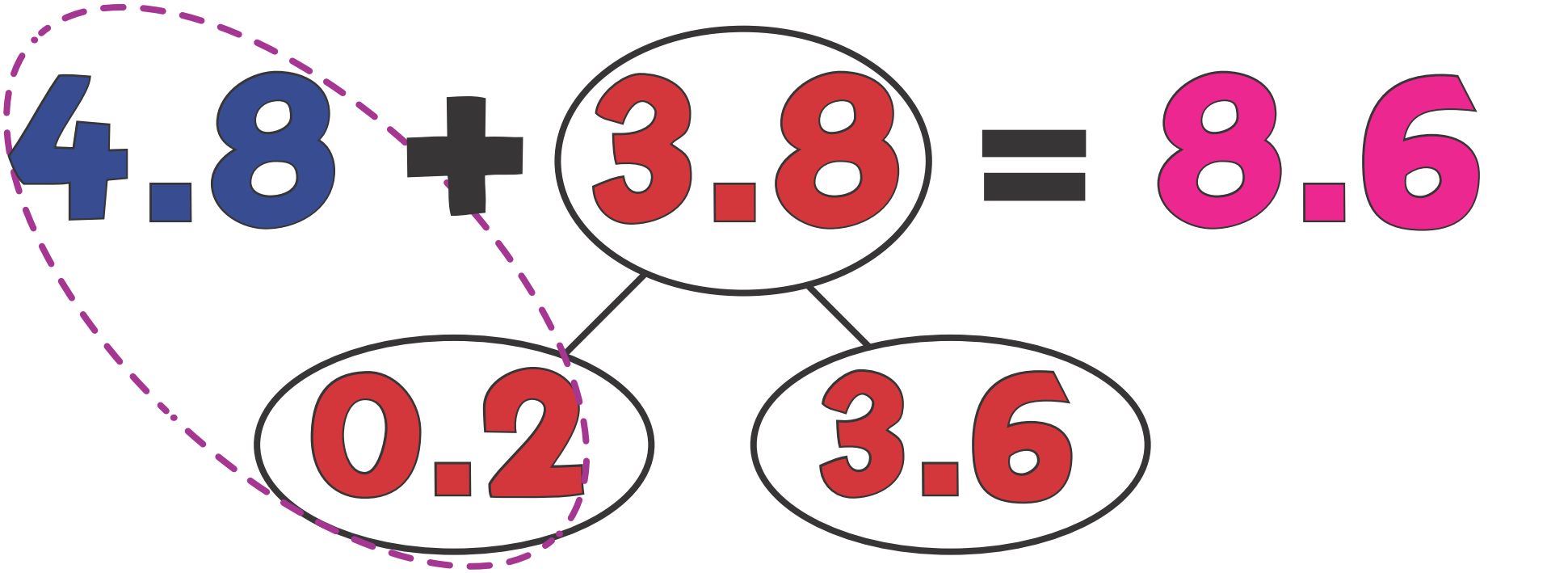
A6h: Part/Whole

5

Partitioning One Addend



5 + 3.6 = 8.6

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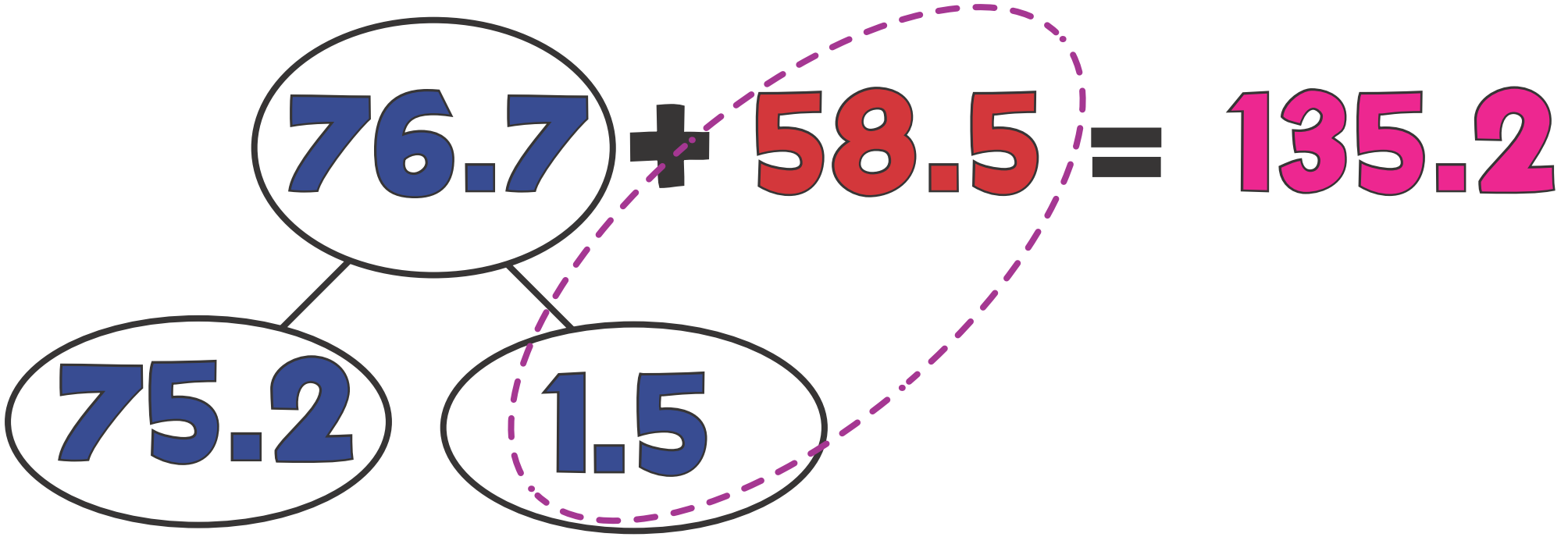
A6 j: Part/Whole

5

Partitioning One Addend



75.2 + 60 = 135.2

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A7: Expanded Column

Addition

2

10	1
4	3
+ 2	4
6	0
6	7

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A7a: Expanded Column Addition

2

	10	1
	5	7
+	2	5
	7	0
	1	2
	8	2

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A7b: Expanded Column

Addition

2/3

	10	1
	7	5
+	5	2
		7
	120	
	127	

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A7c: Expanded Column Addition

2/3

100	10	1
	8	6
+	4	8
	1	4
1	2	0
1	3	4

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A7d: Expanded Column Addition

3

	100	10	1
	6	8	7
+	2	4	8
		1	5
	1	2	0
	8	0	0
	9	3	5

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A7e: Expanded Column Addition

3

1000	100	10	1
	7	3	8
+	5	2	4
		1	2
		5	0
1	2	0	0
1	2	6	2

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A8: Column Addition

2

10	1
4	3
+ 2	4
6	7

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A8a: Column Addition

2

	10	1
	5	7
+	2	5
	8	2
		1

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A8b: Column Addition

2/3

100	10	1
	7	5
+	5	2
1	2	7
1		

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A8c: Column Addition

2/3

100	10	1
	8	6
+	4	8
1	3	4
	1	1

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A8d: Column Addition

3

100	10	1
6	8	7
+ 2	4	8
9	3	5
1	1	

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A8e: Column Addition

3

100	10	1
7	3	8
+ 5	2	4
1	2	6	2
1		1	

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A8f: Column Addition

4

$$
\begin{array}{r}
4873 \\
+\ 3762 \\
\hline
8635 \\
\hline
1\ \ 1
\end{array}
$$

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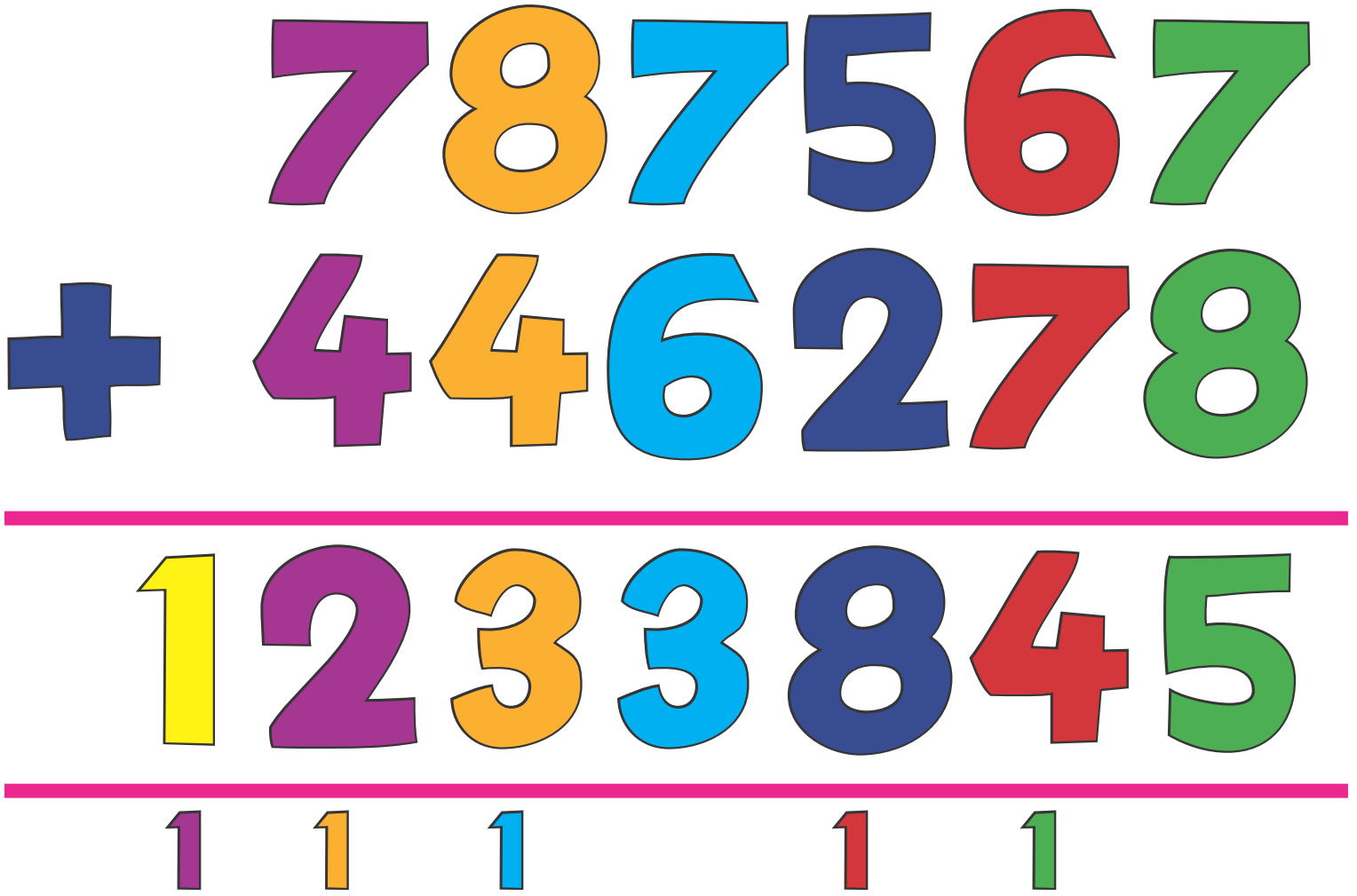
A8g: Column Addition

5



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A8h: Column Addition

5

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

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A8i: Column Addition

5

1	.	$\frac{1}{10}$	$\frac{1}{100}$
5	.	6	5
+ 3	.	2	9
8	.	9	4
1			

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A8 j: Column Addition

5

10	1	.	$\frac{1}{10}$
	76	.	7
+	58	.	5
1	35	.	2
1	1		1

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A8k: Column Addition

5

With Money

	£	38	.25
+	£	27	.46
	£	65	.71
		1	1

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A8l: 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	
7	9	. 0	7	
	1			

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