Decimal Fractions - tenths

3.7 + □ = 8.9

> We are learning to reverse add mentally the ones and tenths separately when appropriate.

Jane works out 3.8 + □ = 8.9 this way:
3.8 + 0.2 = 4, 4 + 4.9 = 8.9, 0.2 + 4.9 = 5.1.
Joel works out 3.8 + □ = 8.9 this way:
3 + 5 = 8, 0.8 + 0.1 = 0.9, so the answer is 5.1.

Why is Joel's method better?

Exercise 1

What to do

1) Use the strategy of reverse adding mentally the ones and tenths separately (Joel's method) when appropriate to find the number that goes in the box.
2) Do the problems in your head first
3) Check you are right by writing them down. Show them like the examples above.

1) $4.5 + □ = 8.6$	(2) $1.2 + □ = 9.9$	(3) $4.0 + □ = 7.6$
4) $2.9 + □ = 8.9$	(5) $3.1 + □ = 5.4$	(6) $2.8 + □ = 8.8$
7) $5.6 + □ = 9.6$	(8) $1.1 + □ = 7.7$	

Exercise 2

What to do

1) Use the strategy of reverse adding mentally the ones and tenths separately (Joel's method) when appropriate to find the number that goes in the box.
2) Do the problems in your head first
3) Check you are right by writing them down. Show them like the examples above.

1) $□ + 5.4 = 8.4$	(2) $□ + 4.3 = 9.5$	(3) $□ + 2.5 = 8.8$
4) $□ + 2.2 = 8.4$	(5) $□ + 8.2 = 9.9$	(6) $□ + 3.2 = 9.5$
7) $□ + 1.3 = 9.7$	(8) $□ + 4.6 = 9.9$	

Exercise 3

What to do
1) Use the strategy of reverse adding mentally the ones and tenths separately (Joel's method) when appropriate to find the number that goes in the box.
2) Do the problems in your head first
3) Check you are right by writing them down. Show them like the examples above.

1) $\square - 4.3 = 3.4$

(2) $\square - 3.6 = 1.2$

(3) $\square - 1.5 = 8.2$

4) $\square - 4.4 = 8.4$

(5) $\square - 3.2 = 4.0$

(6) $\square - 2.8 = 1.1$

Exercise 4

What to do
1) Use the strategy of reverse adding mentally the ones and tenths separately (Joel's method) when appropriate to find the number that goes in the box.
2) Do the problems in your head first
3) Check you are right by writing them down. Show them like the examples above.

1) $44.5 + \square = 45.6$

(2) $81.2 + \square = 82.9$

(3) $13.1 + \square = 25.4$

4) $25.6 + \square = 39.6$

(5) $62.9 + \square = 68.9$

(6) $1.1 + \square = 27.7$

7) $444.4 + \square = 555.5$

(8) $60.6 + \square = 80.8$

Decimal Fractions – Tenths
$3.7 + \square = 8.9$
Answers

Why is Joel's method better?
Uses fewer steps. No need to jump to a tidy number as all of the digits in the first number are smaller than the corresponding digits in the second number.

Exercise 1

1)	4.1	(2)	8.7	(3)	3.6
4)	6	(5)	2.3	(6)	6
7)	4	(8)	6.6		

Exercise 2

1)	3	(2)	5.2	(3)	6.3
4)	6.2	(5)	1.7	(6)	6.3
7)	8.4	(8)	5.3		

Exercise 3

1)	7.7	(2)	4.8	(3)	9.7
4)	12.8	(5)	7.2	(6)	3.9

Exercise 4

1)	1.1	(2)	1.7	(3)	12.3
4)	14	(5)	6	(6)	26.6
7)	111.1	(8)	20.2		