

Lesson 12 – Add 2-digit Numbers, Not Crossing

NC Objective:

Add numbers using concrete objects, pictorial representations, and mentally, including: two-digit numbers and two-digit numbers

Resources needed:

Differentiated worksheets
Teaching slides
Base 10

Vocabulary:

Addition, 2-digit number, ones, tens, column method, partition

This step is an important pre-requisite before children add two-digit numbers with an exchange. Focus on the language of tens and ones and look at different methods to add the numbers including the column method. It is important that teachers always show the children to start with the ones when adding using the column method.

Key Questions:

Can you partition the number into tens and ones?

Can you count the ones? Can you count the tens?

Can you show your addition by drawing the Base 10 to help?

How could you represent the problem?

★ Working Towards

Add 2-digit Numbers, No Exchange

Calculate the answers.

$23 + 41$ 3 ones + 1 one = _____ 2 tens + 4 tens = _____ _____ tens + _____ ones = _____	$34 + 34$ 4 ones + 4 ones = _____ 3 tens + 3 tens = _____ _____ tens + _____ ones = _____
$16 + 23$ 6 ones + 3 ones = _____ 1 ten + 2 tens = _____ _____ tens + _____ ones = _____	$88 + 11$ 8 ones + 1 one = _____ 8 tens + 1 ten = _____ _____ tens + _____ ones = _____
$25 + 21$ 5 ones + 1 one = _____ 2 tens + 2 tens = _____ _____ tens + _____ ones = _____	$41 + 32$ 1 one + 2 ones = _____ 4 tens + 3 tens = _____ _____ tens + _____ ones = _____
$61 + 23$ 1 one + 3 ones = _____ 6 tens + 2 tens = _____ _____ tens + _____ ones = _____	$14 + 12$ 4 ones + 2 ones = _____ 1 ten + 1 ten = _____ _____ tens + _____ ones = _____

★★ Working Within

Add 2-digit Numbers, No Exchange

Calculate the answers.

$33 + 41$ 3 ones + 1 one = _____ 3 tens + 4 tens = _____ _____ tens + _____ ones = _____	$14 + 34$ 4 ones + 4 ones = _____ 1 ten + 3 tens = _____ _____ tens + _____ ones = _____
$16 + 63$ 6 ones + 3 ones = _____ 1 ten + 6 tens = _____ _____ tens + _____ ones = _____	$78 + 11$ 8 ones + 1 one = _____ 7 tens + 1 ten = _____ _____ tens + _____ ones = _____
$65 + 21$ 5 ones + 1 one = _____ 6 tens + 2 tens = _____ _____ tens + _____ ones = _____	$45 + 32$ 5 ones + 2 ones = _____ 4 tens + 3 tens = _____ _____ tens + _____ ones = _____
$61 + 34$ 1 one + 4 ones = _____ 6 tens + 3 tens = _____ _____ tens + _____ ones = _____	$51 + 11$ 1 one + 1 one = _____ 5 tens + 1 ten = _____ _____ tens + _____ ones = _____

★★★ Greater Depth

Add 2-digit Numbers, No Exchange

Calculate the answers.

$33 + \underline{\quad}$ 3 ones + 1 one = _____ 3 tens + 4 tens = _____ _____ tens + _____ ones = _____	$\underline{\quad} + \underline{\quad}$ 2 ones + 5 ones = _____ 4 tens + 2 tens = _____ _____ tens + _____ ones = _____
$\underline{\quad} + \underline{\quad}$ 6 ones + 5 ones = _____ 4 tens + 3 tens = _____ _____ tens + 8 ones = _____	$\underline{\quad} + \underline{\quad}$ 1 one + 2 one = _____ 8 tens + 1 ten = _____ _____ tens + 3 ones = _____
$\underline{\quad} + \underline{\quad}$ 5 ones + _____ ones = _____ _____ tens + 2 tens = _____ 8 tens + 7 ones = _____	$\underline{\quad} + \underline{\quad}$ 5 ones + _____ ones = _____ 4 tens + _____ tens = _____ 6 tens + 4 ones = _____
$\underline{\quad} + \underline{\quad}$ _____ + _____ = _____ _____ + _____ = _____ _____ tens + _____ ones = _____	$\underline{\quad} + \underline{\quad}$ _____ + _____ = _____ _____ + _____ = _____ _____ tens + _____ ones = _____

Children add two 2-digit numbers using manipulatives to help. They have pictorial images to help and can use these to check that their final answer is correct.

Children add two 2-digit numbers using manipulatives if needed.

They complete the number sentences by adding their ones first, followed by the tens.

Children on this sheet are able to add 2 two-digit numbers efficiently. They have the same format of adding the calculations but with missing numbers. They need to use the numbers as clues to find out the missing numbers.

Reasoning & Problem Solving

Add 2-digit Numbers, No Exchange

Reasoning & Problem Solving

What digits could go in the boxes?

$\square 2 + \square 4 = 96$

Rosie has 11 marbles.
Tia has 12 more marbles than Rosie.
How many marbles do they have altogether?

Malachi has been asked to complete the bar model.

$\begin{array}{|c|c|} \hline 17 & 62 \\ \hline \end{array}$

The whole is 88 because $1 + 7 = 8$ and $6 + 2 = 8$

Malachi says,

Explain to Malachi what he has done wrong. How could you help him to work out the correct total?

Children continue working on adding 2-digit numbers by answering reasoning tasks.



Calculate the answers.



$23 + 41$



$3 \text{ ones} + 1 \text{ one} = \underline{\hspace{2cm}}$

$2 \text{ tens} + 4 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

(a)



$34 + 34$



$4 \text{ ones} + 4 \text{ ones} = \underline{\hspace{2cm}}$

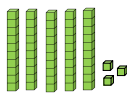
$3 \text{ tens} + 3 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

(b)



$16 + 23$

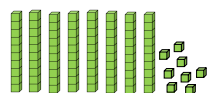


$6 \text{ ones} + 3 \text{ ones} = \underline{\hspace{2cm}}$

$1 \text{ ten} + 2 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

(c)



$88 + 11$



$8 \text{ ones} + 1 \text{ one} = \underline{\hspace{2cm}}$

$8 \text{ tens} + 1 \text{ ten} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

(d)



$25 + 21$

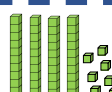


$5 \text{ ones} + 1 \text{ one} = \underline{\hspace{2cm}}$

$2 \text{ tens} + 2 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

(e)



$41 + 32$

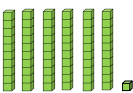


$1 \text{ one} + 2 \text{ ones} = \underline{\hspace{2cm}}$

$4 \text{ tens} + 3 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

(f)



$61 + 23$



$1 \text{ one} + 3 \text{ ones} = \underline{\hspace{2cm}}$

$6 \text{ tens} + 2 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

(g)



$14 + 12$



$4 \text{ ones} + 2 \text{ ones} = \underline{\hspace{2cm}}$

$1 \text{ ten} + 1 \text{ ten} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

(h)



Calculate the answers.



$23 + 41$



$3 \text{ ones} + 1 \text{ one} = \underline{4 \text{ ones}}$

$2 \text{ tens} + 4 \text{ tens} = \underline{6 \text{ tens}}$

$\underline{6} \text{ tens} + \underline{4} \text{ ones} = \underline{64}$



$34 + 34$



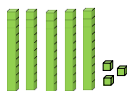
$4 \text{ ones} + 4 \text{ ones} = \underline{8 \text{ ones}}$

$3 \text{ tens} + 3 \text{ tens} = \underline{6 \text{ tens}}$

$\underline{6} \text{ tens} + \underline{8} \text{ ones} = \underline{68}$



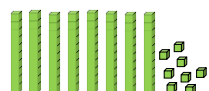
$16 + 23$



$6 \text{ ones} + 3 \text{ ones} = \underline{9 \text{ ones}}$

$1 \text{ ten} + 2 \text{ tens} = \underline{3 \text{ tens}}$

$\underline{3} \text{ tens} + \underline{9} \text{ ones} = \underline{39}$



$88 + 11$



$8 \text{ ones} + 1 \text{ one} = \underline{9 \text{ ones}}$

$8 \text{ tens} + 1 \text{ ten} = \underline{9 \text{ tens}}$

$\underline{9} \text{ tens} + \underline{9} \text{ ones} = \underline{99}$



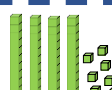
$25 + 21$



$5 \text{ ones} + 1 \text{ one} = \underline{6 \text{ ones}}$

$2 \text{ tens} + 2 \text{ tens} = \underline{4 \text{ tens}}$

$\underline{4} \text{ tens} + \underline{6} \text{ ones} = \underline{46}$



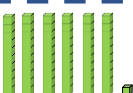
$41 + 32$



$1 \text{ one} + 2 \text{ ones} = \underline{3 \text{ ones}}$

$4 \text{ tens} + 3 \text{ tens} = \underline{7 \text{ tens}}$

$\underline{7} \text{ tens} + \underline{3} \text{ ones} = \underline{73}$



$61 + 23$



$1 \text{ one} + 3 \text{ ones} = \underline{4 \text{ ones}}$

$6 \text{ tens} + 2 \text{ tens} = \underline{8 \text{ tens}}$

$\underline{8} \text{ tens} + \underline{4} \text{ ones} = \underline{84}$



$14 + 12$



$4 \text{ ones} + 2 \text{ ones} = \underline{6 \text{ ones}}$

$1 \text{ ten} + 1 \text{ ten} = \underline{2 \text{ tens}}$

$\underline{2} \text{ tens} + \underline{6} \text{ ones} = \underline{26}$



Calculate the answers.

$$33 + 41$$

$$3 \text{ ones} + 1 \text{ one} = \underline{\hspace{2cm}}$$

$$3 \text{ tens} + 4 \text{ tens} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$$

$$14 + 34$$

$$4 \text{ ones} + 4 \text{ ones} = \underline{\hspace{2cm}}$$

$$1 \text{ ten} + 3 \text{ tens} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$$

$$16 + 63$$

$$6 \text{ ones} + 3 \text{ ones} = \underline{\hspace{2cm}}$$

$$1 \text{ ten} + 6 \text{ tens} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$$

$$78 + 11$$

$$8 \text{ ones} + 1 \text{ one} = \underline{\hspace{2cm}}$$

$$7 \text{ tens} + 1 \text{ ten} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$$

$$65 + 21$$

$$5 \text{ ones} + 1 \text{ one} = \underline{\hspace{2cm}}$$

$$6 \text{ tens} + 2 \text{ tens} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$$

$$45 + 32$$

$$5 \text{ ones} + 2 \text{ ones} = \underline{\hspace{2cm}}$$

$$4 \text{ tens} + 3 \text{ tens} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$$

$$61 + 34$$

$$1 \text{ one} + 4 \text{ ones} = \underline{\hspace{2cm}}$$

$$6 \text{ tens} + 3 \text{ tens} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$$

$$51 + 11$$

$$1 \text{ one} + 1 \text{ one} = \underline{\hspace{2cm}}$$

$$5 \text{ tens} + 1 \text{ ten} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$$



Calculate the answers.

a

$$33 + 41$$

$$3 \text{ ones} + 1 \text{ one} = \underline{4 \text{ ones}}$$

$$3 \text{ tens} + 4 \text{ tens} = \underline{7 \text{ tens}}$$

$$\underline{7} \text{ tens} + \underline{4} \text{ ones} = \underline{74}$$

b

$$14 + 34$$

$$4 \text{ ones} + 4 \text{ ones} = \underline{8 \text{ ones}}$$

$$1 \text{ ten} + 3 \text{ tens} = \underline{4 \text{ tens}}$$

$$\underline{4} \text{ tens} + \underline{8} \text{ ones} = \underline{48}$$

c

$$16 + 63$$

$$6 \text{ ones} + 3 \text{ ones} = \underline{9 \text{ ones}}$$

$$1 \text{ ten} + 6 \text{ tens} = \underline{7 \text{ tens}}$$

$$\underline{7} \text{ tens} + \underline{9} \text{ ones} = \underline{79}$$

d

$$78 + 11$$

$$8 \text{ ones} + 1 \text{ one} = \underline{9 \text{ ones}}$$

$$7 \text{ tens} + 1 \text{ ten} = \underline{8 \text{ tens}}$$

$$\underline{8} \text{ tens} + \underline{9} \text{ ones} = \underline{89}$$

e

$$65 + 21$$

$$5 \text{ ones} + 1 \text{ one} = \underline{6 \text{ ones}}$$

$$6 \text{ tens} + 2 \text{ tens} = \underline{8 \text{ tens}}$$

$$\underline{8} \text{ tens} + \underline{6} \text{ ones} = \underline{86}$$

f

$$45 + 32$$

$$5 \text{ ones} + 2 \text{ ones} = \underline{7 \text{ ones}}$$

$$4 \text{ tens} + 3 \text{ tens} = \underline{7 \text{ tens}}$$

$$\underline{7} \text{ tens} + \underline{7} \text{ ones} = \underline{77}$$

g

$$61 + 34$$

$$1 \text{ one} + 4 \text{ ones} = \underline{5 \text{ ones}}$$

$$6 \text{ tens} + 3 \text{ tens} = \underline{9 \text{ tens}}$$

$$\underline{9} \text{ tens} + \underline{5} \text{ ones} = \underline{95}$$

h

$$51 + 11$$

$$1 \text{ one} + 1 \text{ one} = \underline{2 \text{ ones}}$$

$$5 \text{ tens} + 1 \text{ ten} = \underline{6 \text{ tens}}$$

$$\underline{6} \text{ tens} + \underline{2} \text{ ones} = \underline{62}$$



Calculate the answers.

a

$33 + \underline{\hspace{2cm}}$

$3 \text{ ones} + 1 \text{ one} = \underline{\hspace{2cm}}$

$3 \text{ tens} + 5 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

b

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$2 \text{ ones} + 5 \text{ ones} = \underline{\hspace{2cm}}$

$4 \text{ tens} + 2 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

c

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ ones} + 5 \text{ ones} = \underline{\hspace{2cm}}$

$4 \text{ tens} + 3 \text{ tens} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + 8 \text{ ones} = \underline{\hspace{2cm}}$

d

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ one} + 2 \text{ one} = \underline{\hspace{2cm}}$

$8 \text{ tens} + 1 \text{ ten} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + 3 \text{ ones} = \underline{\hspace{2cm}}$

e

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$5 \text{ ones} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + 2 \text{ tens} = \underline{\hspace{2cm}}$

$8 \text{ tens} + 7 \text{ ones} = \underline{\hspace{2cm}}$

f

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$5 \text{ ones} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

$4 \text{ tens} + \underline{\hspace{1cm}} \text{ tens} = \underline{\hspace{2cm}}$

$6 \text{ tens} + 9 \text{ ones} = \underline{\hspace{2cm}}$

Complete your own.

g

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$

h

$\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

$\underline{\hspace{1cm}} \text{ tens} + \underline{\hspace{1cm}} \text{ ones} = \underline{\hspace{2cm}}$



Calculate the answers.

a

$$33 + \underline{51}$$

$$3 \text{ ones} + 1 \text{ one} = \underline{4 \text{ ones}}$$

$$3 \text{ tens} + 5 \text{ tens} = \underline{8 \text{ tens}}$$

$$\underline{8} \text{ tens} + \underline{4} \text{ ones} = \underline{84}$$

b

$$\underline{42} + \underline{25}$$

$$2 \text{ ones} + 5 \text{ ones} = \underline{7 \text{ ones}}$$

$$4 \text{ tens} + 2 \text{ tens} = \underline{6 \text{ tens}}$$

$$\underline{6} \text{ tens} + \underline{7} \text{ ones} = \underline{67}$$

c

$$\underline{43} + \underline{35}$$

$$\underline{3} \text{ ones} + 5 \text{ ones} = \underline{8 \text{ ones}}$$

$$4 \text{ tens} + 3 \text{ tens} = \underline{7 \text{ tens}}$$

$$\underline{7} \text{ tens} + 8 \text{ ones} = \underline{78}$$

d

$$\underline{81} + \underline{12}$$

$$\underline{1} \text{ one} + 2 \text{ one} = \underline{3 \text{ ones}}$$

$$8 \text{ tens} + 1 \text{ ten} = \underline{9 \text{ tens}}$$

$$\underline{9} \text{ tens} + 3 \text{ ones} = \underline{93}$$

e

$$\underline{65} + \underline{22}$$

$$5 \text{ ones} + \underline{2} \text{ ones} = \underline{7 \text{ ones}}$$

$$\underline{6} \text{ tens} + 2 \text{ tens} = \underline{8 \text{ tens}}$$

$$8 \text{ tens} + 7 \text{ ones} = \underline{87}$$

f

$$\underline{45} + \underline{24}$$

$$5 \text{ ones} + \underline{4} \text{ ones} = \underline{9 \text{ ones}}$$

$$4 \text{ tens} + \underline{2} \text{ tens} = \underline{6 \text{ tens}}$$

$$6 \text{ tens} + 9 \text{ ones} = \underline{69}$$

Multiple answers

g

$$\underline{\quad} + \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \text{ tens} + \underline{\quad} \text{ ones} = \underline{\quad}$$

h

$$\underline{\quad} + \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \text{ tens} + \underline{\quad} \text{ ones} = \underline{\quad}$$

What digits could go in the boxes?

$$\boxed{}2 + \boxed{}4 = 96$$

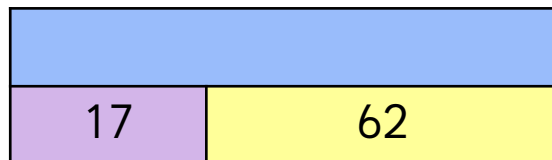
Rosie has 11 marbles,

Tia has 12 more marbles than Rosie.

How many marbles do they have altogether?



Malachi has been asked to complete the bar model.



The whole is 88
because $1 + 7 = 8$
and $6 + 2 = 8$



Malachi says,

Explain to Malachi what he has done wrong.
How could you help him to work out
the correct total?

What digits could go in the boxes?

$$\boxed{}2 + \boxed{}4 = 96$$

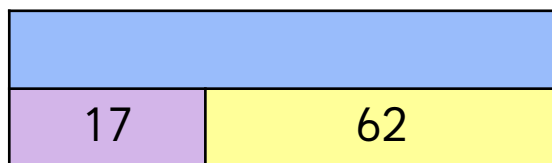
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Explain to Malachi what he has done wrong.
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What digits could go in the boxes?

$$\boxed{}2 + \boxed{}4 = 96$$

1 and 8
2 and 7
3 and 6
4 and 5
5 and 4
6 and 3
7 and 2
8 and 1

An interesting discussion could be had around the question; is 1 and 8 different to 8 and 1?

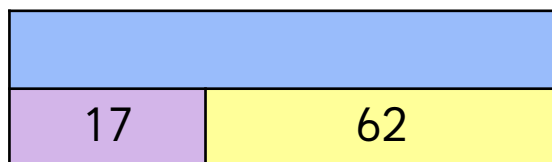
Rosie has 11 marbles,
Tia has 12 more marbles than Rosie.

How many marbles do they have altogether?

Tia has 23 marbles,
altogether they have 34 marbles.



Malachi has been asked to complete the bar model.



The whole is 88
because $1 + 7 = 8$
and $6 + 2 = 8$



Malachi says,

Explain to Malachi what he has done wrong.
How could you help him to work out
the correct total?

Malachi has found the digits total and put the
digits together to make 88.

The correct answer is 79 and this can be shown
by using Base 10 and a place value chart.

What digits could go in the boxes?

$$\boxed{}2 + \boxed{}4 = 96$$

1 and 8
2 and 7
3 and 6
4 and 5
5 and 4
6 and 3
7 and 2
8 and 1

An interesting discussion could be had around the question; is 1 and 8 different to 8 and 1?

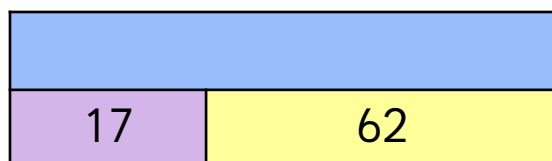
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altogether they have 34 marbles.



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The whole is 88
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