

Lesson 14 – Add 2-digit Numbers, Crossing

NC Objective:

Add numbers using concrete objects, pictorial representations and mentally

Resources needed:

Differentiated worksheets
Teaching slides

Vocabulary:

2-digit number, addition, total, partition, exchange, represent, value, sum

Children use Base 10 and partitioning to add together 2-digit numbers including exchange. They could be encouraged to draw the Base 10 alongside recording any formal column method.

They have already seen what happens when there are more than 10 ones and should be confident in exchanging 10 ones for one 10.

Key Questions:

Can you represent the ones and tens using Base 10? What is the value of the digits?

How many ones do we have altogether? How many tens do we have altogether?

Can we exchange ten ones for one ten?

What is the sum of the numbers? What is the total?

How many ways have we got altogether?

★ Working Towards

Add 2-digit Numbers, Crossing ★★ Fluency & Precision 2

Calculate the answers.

$24 + 17$ 4 ones + 7 ones = _____ 2 tens + 1 ten = _____ tens + ones = _____	$34 + 19$ 4 ones + 9 ones = _____ 3 tens + 1 ten = _____ tens + ones = _____
$16 + 18$ 6 ones + 8 ones = _____ 1 ten + 1 ten = _____ tens + ones = _____	$46 + 36$ 6 ones + 6 ones = _____ 4 tens + 3 tens = _____ tens + ones = _____
$15 + 56$ 5 ones + 6 ones = _____ 1 ten + 5 tens = _____ tens + ones = _____	$28 + 19$ 8 ones + 9 ones = _____ 2 tens + 1 ten = _____ tens + ones = _____
$34 + 58$ 4 ones + 8 ones = _____ 3 tens + 5 tens = _____ tens + ones = _____	$18 + 37$ 8 ones + 7 ones = _____ 1 ten + 3 tens = _____ tens + ones = _____

★★ Working Within

Add 2-digit Numbers, Crossing ★★ Fluency & Precision 2

Calculate the answers.

$45 + 27$ 5 ones + 7 ones = _____ 4 tens + 2 tens = _____ tens + ones = _____	$37 + 54$ 7 ones + 4 ones = _____ 3 tens + 5 tens = _____ tens + ones = _____
$19 + 69$ 9 ones + 9 ones = _____ 1 ten + 6 tens = _____ tens + ones = _____	$53 + 19$ 4 ones + 9 ones = _____ 5 tens + 1 ten = _____ tens + ones = _____
$44 + 48$ 4 ones + 8 ones = _____ 4 tens + 4 tens = _____ tens + ones = _____	$16 + 76$ 6 ones + 6 ones = _____ 1 ten + 7 tens = _____ tens + ones = _____
$26 + 19$ 3 ones + 9 ones = _____ 2 tens + 1 ten = _____ tens + ones = _____	$18 + 68$ 8 ones + 8 ones = _____ 1 ten + 6 tens = _____ tens + ones = _____

★★★ Greater Depth

Add 2-digit Numbers, Crossing ★★ Fluency & Precision 2

Calculate the answers.

$26 + \underline{\quad}$ 6 ones + 5 ones = _____ 2 tens + 4 tens = _____ tens + ones = _____	$\underline{\quad} + \underline{\quad}$ 5 ones + 8 ones = _____ 3 tens + 4 tens = _____ tens + ones = _____
$\underline{\quad} + \underline{\quad}$ ones + 7 ones = _____ 2 tens + 5 tens = _____ tens + ones = _____	$\underline{\quad} + \underline{\quad}$ ones + 9 ones = _____ 4 tens + 2 tens = _____ tens + ones = _____
$\underline{\quad} + \underline{\quad}$ 7 ones + ones = _____ tens + 1 ten = _____ 4 tens + 15 ones = _____	$\underline{\quad} + \underline{\quad}$ 7 ones + ones = _____ 7 tens + tens = _____ 8 tens + 11 ones = _____
$\underline{\quad} + \underline{\quad}$ + _____ tens + ones = _____	$\underline{\quad} + \underline{\quad}$ + _____ tens + ones = _____

They move on to the same process of adding their ones first and then the tens. Children will need manipulatives at each stage. Their choice of written method can be written beside the calculation.

They move on to the same process of adding their ones first and then the tens. Children could need manipulatives at each stage. Their choice of written method can be written beside the calculation.

Children have the same process but have to work out the missing numbers before moving onto creating their own calculation where the it crosses the ten.

Reasoning & Problem Solving

Add 2-digit Numbers, Crossing Reasoning & Problem Solving 2

How many different ways can you solve $22 + 28$?
Explain your method to a partner.
Use concrete or pictorial resources to help explain your method.

Can you create a calculation where there will be an exchange in the ones and your answer will have three ones and be less than 100?

Find all the possible pairs of numbers that can complete the addition.

2	
3	
6	3

How do you know you have found all the pairs?
What is the same about all the pairs of numbers?

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



Calculate the answers.



$24 + 17$



$4 \text{ ones} + 7 \text{ ones} = \underline{\hspace{2cm}}$

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

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

(a)



$34 + 19$



$4 \text{ ones} + 9 \text{ ones} = \underline{\hspace{2cm}}$

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

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

(b)



$16 + 18$

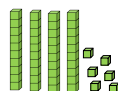


$6 \text{ ones} + 8 \text{ ones} = \underline{\hspace{2cm}}$

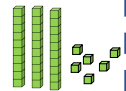
$1 \text{ ten} + 1 \text{ ten} = \underline{\hspace{2cm}}$

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

(c)



$46 + 36$



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

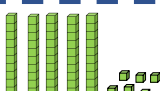
$4 \text{ tens} + 3 \text{ ten} = \underline{\hspace{2cm}}$

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

(d)



$15 + 56$



$5 \text{ ones} + 6 \text{ ones} = \underline{\hspace{2cm}}$

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

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

(e)



$28 + 19$



$8 \text{ ones} + 9 \text{ ones} = \underline{\hspace{2cm}}$

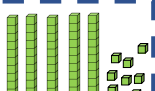
$2 \text{ tens} + 1 \text{ ten} = \underline{\hspace{2cm}}$

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

(f)



$34 + 58$



$4 \text{ ones} + 8 \text{ ones} = \underline{\hspace{2cm}}$

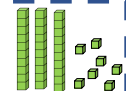
$3 \text{ tens} + 5 \text{ tens} = \underline{\hspace{2cm}}$

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

(g)



$18 + 37$



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

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

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

(h)



Calculate the answers.



$24 + 17$



$4 \text{ ones} + 7 \text{ ones} = \underline{11 \text{ ones}}$

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

$\underline{3} \text{ tens} + \underline{11} \text{ ones} = \underline{41}$

(a)



$34 + 19$



$4 \text{ ones} + 9 \text{ ones} = \underline{13 \text{ ones}}$

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

$\underline{4} \text{ tens} + \underline{13} \text{ ones} = \underline{53}$

(b)



$16 + 18$

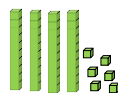


$6 \text{ ones} + 8 \text{ ones} = \underline{14 \text{ ones}}$

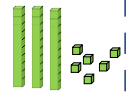
$1 \text{ ten} + 1 \text{ ten} = \underline{2 \text{ tens}}$

$\underline{2} \text{ tens} + \underline{14} \text{ ones} = \underline{34}$

(c)



$46 + 36$



$6 \text{ ones} + 6 \text{ ones} = \underline{12 \text{ ones}}$

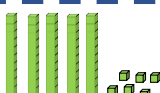
$4 \text{ tens} + 3 \text{ ten} = \underline{7 \text{ tens}}$

$\underline{7} \text{ tens} + \underline{12} \text{ ones} = \underline{84}$

(d)



$15 + 56$



$5 \text{ ones} + 6 \text{ ones} = \underline{11 \text{ ones}}$

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

$\underline{6} \text{ tens} + \underline{11} \text{ ones} = \underline{71}$

(e)



$28 + 19$



$8 \text{ ones} + 9 \text{ ones} = \underline{17 \text{ ones}}$

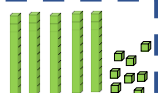
$2 \text{ tens} + 1 \text{ ten} = \underline{3 \text{ tens}}$

$\underline{3} \text{ tens} + \underline{17} \text{ ones} = \underline{47}$

(f)



$34 + 58$



$4 \text{ ones} + 8 \text{ ones} = \underline{12 \text{ ones}}$

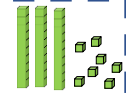
$3 \text{ tens} + 5 \text{ tens} = \underline{8 \text{ tens}}$

$\underline{8} \text{ tens} + \underline{12} \text{ ones} = \underline{92}$

(g)



$18 + 37$



$8 \text{ ones} + 7 \text{ ones} = \underline{15 \text{ ones}}$

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

$\underline{4} \text{ tens} + \underline{15} \text{ ones} = \underline{55}$

(h)



Calculate the answers.

a

$$45 + 27$$

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

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

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

b

$$37 + 54$$

$$7 \text{ ones} + 4 \text{ ones} = \underline{\hspace{2cm}}$$

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

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

c

$$19 + 69$$

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

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

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

d

$$53 + 19$$

$$4 \text{ ones} + 9 \text{ ones} = \underline{\hspace{2cm}}$$

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

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

e

$$44 + 48$$

$$4 \text{ ones} + 8 \text{ ones} = \underline{\hspace{2cm}}$$

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

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

f

$$16 + 76$$

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

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

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

g

$$26 + 19$$

$$3 \text{ ones} + 9 \text{ ones} = \underline{\hspace{2cm}}$$

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

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

h

$$18 + 68$$

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

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

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



Calculate the answers.

a

$$45 + 27$$

$$5 \text{ ones} + 7 \text{ ones} = \underline{12 \text{ ones}}$$

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

$$\underline{6} \text{ tens} + \underline{12} \text{ ones} = \underline{72}$$

b

$$37 + 54$$

$$7 \text{ ones} + 4 \text{ ones} = \underline{11 \text{ ones}}$$

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

$$\underline{8} \text{ tens} + \underline{11} \text{ ones} = \underline{91}$$

c

$$19 + 69$$

$$9 \text{ ones} + 9 \text{ ones} = \underline{18 \text{ ones}}$$

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

$$\underline{7} \text{ tens} + \underline{18} \text{ ones} = \underline{88}$$

d

$$53 + 19$$

$$4 \text{ ones} + 9 \text{ ones} = \underline{13 \text{ ones}}$$

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

$$\underline{6} \text{ tens} + \underline{13} \text{ ones} = \underline{73}$$

e

$$44 + 48$$

$$4 \text{ ones} + 8 \text{ ones} = \underline{12 \text{ ones}}$$

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

$$\underline{8} \text{ tens} + \underline{12} \text{ ones} = \underline{92}$$

f

$$16 + 76$$

$$6 \text{ ones} + 6 \text{ ones} = \underline{12 \text{ ones}}$$

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

$$\underline{8} \text{ tens} + \underline{12} \text{ ones} = \underline{92}$$

g

$$26 + 19$$

$$3 \text{ ones} + 9 \text{ ones} = \underline{15 \text{ ones}}$$

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

$$\underline{3} \text{ tens} + \underline{15} \text{ ones} = \underline{45}$$

h

$$18 + 68$$

$$8 \text{ ones} + 8 \text{ ones} = \underline{16 \text{ ones}}$$

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

$$\underline{7} \text{ tens} + \underline{16} \text{ ones} = \underline{86}$$



Calculate the answers.

a

$26 + \underline{\hspace{2cm}}$

$6 \text{ ones} + 5 \text{ one} = \underline{\hspace{2cm}}$

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

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

b

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

$5 \text{ ones} + 8 \text{ ones} = \underline{\hspace{2cm}}$

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

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

c

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

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

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

$\underline{\hspace{1cm}} \text{ tens} + 12 \text{ ones} = \underline{\hspace{2cm}}$

d

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

$\underline{\hspace{1cm}} \text{ ones} + 9 \text{ ones} = \underline{\hspace{2cm}}$

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

$\underline{\hspace{1cm}} \text{ tens} + 13 \text{ ones} = \underline{\hspace{2cm}}$

e

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

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

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

$4 \text{ tens} + 15 \text{ ones} = \underline{\hspace{2cm}}$

f

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

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

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

$8 \text{ tens} + 11 \text{ ones} = \underline{\hspace{2cm}}$

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

$$26 + \underline{45}$$

$$6 \text{ ones} + 5 \text{ ones} = \underline{11 \text{ ones}}$$

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

$$\underline{6} \text{ tens} + \underline{11} \text{ ones} = \underline{71}$$

b

$$\underline{35} + \underline{48}$$

$$5 \text{ ones} + 8 \text{ ones} = \underline{13 \text{ ones}}$$

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

$$\underline{7} \text{ tens} + \underline{13} \text{ ones} = \underline{83}$$

c

$$\underline{25} + \underline{57}$$

$$\underline{5} \text{ ones} + 7 \text{ ones} = \underline{12 \text{ ones}}$$

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

$$\underline{7} \text{ tens} + 12 \text{ ones} = \underline{82}$$

d

$$\underline{44} + \underline{29}$$

$$\underline{4} \text{ ones} + 9 \text{ ones} = \underline{13 \text{ ones}}$$

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

$$\underline{6} \text{ tens} + 13 \text{ ones} = \underline{73}$$

e

$$\underline{37} + \underline{18}$$

$$7 \text{ ones} + \underline{8} \text{ ones} = \underline{15 \text{ ones}}$$

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

$$4 \text{ tens} + 15 \text{ ones} = \underline{55}$$

f

$$\underline{77} + \underline{14}$$

$$7 \text{ ones} + \underline{4} \text{ ones} = \underline{15 \text{ ones}}$$

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

$$8 \text{ tens} + 11 \text{ ones} = \underline{91}$$

Multiple answers

g

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

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

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

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

h

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

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

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

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

How many different ways can you solve
 $22 + 28$?

Explain your method to a partner.

Use concrete or pictorial resources to help
explain your method.

Can you create a calculation where there
will be an exchange in the ones and your
answer will have three ones
and be less than 90?

Find all the possible pairs of numbers that can
complete the addition.

$$\begin{array}{r}
 \begin{array}{|c|c|} \hline 2 & \\ \hline \end{array} \\
 + \begin{array}{|c|c|} \hline 3 & \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|} \hline 6 & 3 \\ \hline \end{array} \\
 \text{1}
 \end{array}$$

How do you know you have found all the pairs?

What is the same about all the pairs of
numbers?

How many different ways can you solve
 $22 + 28$?

Explain your method to a partner.

Use concrete or pictorial resources to help
explain your method.

Can you create a calculation where there
will be an exchange in the ones and your
answer will have three ones
and be less than 90?

Find all the possible pairs of numbers that can
complete the addition.

$$\begin{array}{r}
 \begin{array}{|c|c|} \hline 2 & \\ \hline \end{array} \\
 + \begin{array}{|c|c|} \hline 3 & \\ \hline \end{array} \\
 \hline
 \begin{array}{|c|c|} \hline 6 & 3 \\ \hline \end{array} \\
 \text{1}
 \end{array}$$

How do you know you have found all the pairs?

What is the same about all the pairs of
numbers?

How many different ways can you solve $22 + 28$?

Explain your method to a partner.

Use concrete or pictorial resources to help explain your method.

Children might add the ones and then the tens.
Children should notice that 2 and 8 are a number bond to 10 which makes the calculation easier to complete mentally.

Can you create a calculation where there will be an exchange in the ones and your answer will have three ones and be less than 90?

There are lots of possible solutions, for example,
 $27 + 46 = 73$.

Find all the possible pairs of numbers that can complete the addition.

2		$24 + 39$ $25 + 38$ $26 + 37$ $27 + 36$ $28 + 35$ $29 + 34$
3		
<div style="display: flex; justify-content: space-around;"> 6 3 </div>		
1		

How do you know you have found all the pairs?

What is the same about all the pairs of numbers?

All the pairs of ones add up to 13.

How many different ways can you solve $22 + 28$?

Explain your method to a partner.

Use concrete or pictorial resources to help explain your method.

Children might add the ones and then the tens.
Children should notice that 2 and 8 are a number bond to 10 which makes the calculation easier to complete mentally.

Can you create a calculation where there will be an exchange in the ones and your answer will have three ones and be less than 90?

There are lots of possible solutions, for example,
 $27 + 46 = 73$.

Find all the possible pairs of numbers that can complete the addition.

2		$24 + 39$ $25 + 38$ $26 + 37$ $27 + 36$ $28 + 35$ $29 + 34$
3		
<div style="display: flex; justify-content: space-around;"> 6 3 </div>		
1		

How do you know you have found all the pairs?

What is the same about all the pairs of numbers?

All the pairs of ones add up to 13.