Year 3 Maths Home Learning w/c: 19-10-20

This week, we will begin learning a new written method for addition and subtraction: the column method. As Power Maths is a new scheme we have introduced this year, the children will not have been introduced to this method in school so we will begin with the Year 2 lessons this week and progress to the Year 3 lessons after half term. The Year 2 lessons focus on adding and subtracting 1 and 2 digit numbers and the Year 3 is adding and subtracting 2 and 3 digit numbers.

Monday –

Adding two 2-digit numbers 1

Discover

1 **a)** What is the total score for the team wearing red checks?

b) The plain green team scores 10 more than the red checks.

Where does the other plain green  land?

Share

a)

Tens	Ones
3	2
+ 1	4

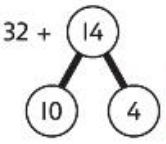
Tens	Ones
3	2
+ 1	4
	6

Tens	Ones
3	2
+ 1	4
4	6

I added the ones first and then added the tens.

I started with 32, added 10 and then added 4.

32 + 14 = 46



32 + 10 = 42

42 + 4 = 46

The red checks score 46 points in total.

b) 14 + 42 = 56

The other plain green [beanbag] lands on 42.

Think together

1 The blue striped team throw one [beanbag] on 23 and one on 50.

What total score does the blue striped team get?

	Tens	Ones
+		

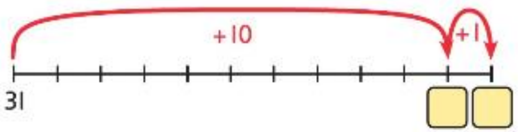
	T	O
	5	0
+	2	3

50 + 23 = [ ]

The total score is [ ].

2 Two [beanbags] are thrown. One lands on 31 and one on 11.

What score does this make?



31 + 10 = [ ]

[ ] + [ ] = [ ]

The total score is [ ].

CHALLENGE

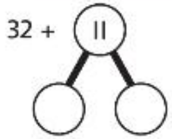
3 One [beanbag] lands on 32 and the other lands on 11.

What score does their team get?

	Tens	Ones
+		

	T	O
	3	2
+	1	1

32 + 11 = [ ]



32 + [ ] = [ ]

[ ] + [ ] = [ ]

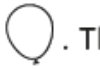
The total score is [ ].

I drew a [ten rod] to represent ten. I drew a [cube] to represent one.

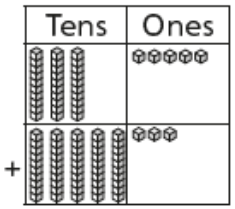
I think I could use the answer to Question 2 for help.

→ Practice book 2A p76

Adding two 2-digit numbers 1

1 **a)** There are 35 red  . There are 53 green  .

How many balloons are there in total?



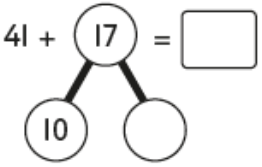
	T	O
	3	5
+	5	3

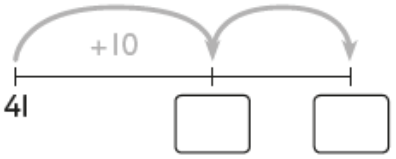
35 + 53 = ☐

There are ☐ balloons in total.

b) There are 17  . There are 41  .

How many animals are there in total?





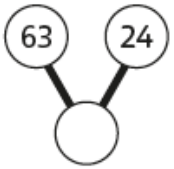
41 + 10 = ☐

☐ + ☐ = ☐

There are ☐ animals altogether.

2 Complete the  .

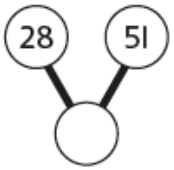
a)



	Tens	Ones
+		

	T	O
	6	3
+	2	4
	☐	☐

b)



	Tens	Ones
+		

	T	O
	2	8
+	5	1
	☐	☐

3 Complete the additions.

a) 12 + 13 = ☐

b) 12 + 14 = ☐

c) ☐ + 14 = 27

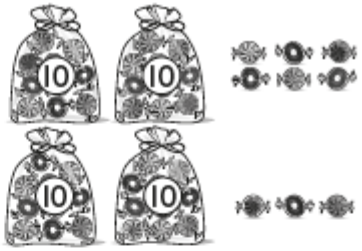
d) ☐ = 38 + 11

e) ☐ = 48 + 11

f) 79 = ☐ + 21

4 Ada has 26 .

Sid has 23 .



	Tens	Ones
+		

	T	O
	2	6
+	2	3
	☐	☐

They have ☐ in total.

5 What digits could go in the boxes?

CHALLENGE

☐7 + ☐2 = 89

Reflect

To work out 25 + 62, I would

Tuesday –

Adding two 2-digit numbers 2

Discover

1 a) How many points did Asha score in total?

b) Sol throws one more ◯.

He scores 50 in total.

Where does his other ◯ land?

Share

a)

Tens	Ones
3	6
2	9

T	O
3	6
+ 2	9

Tens	Ones

T	O
3	6
+ 2	9
	5

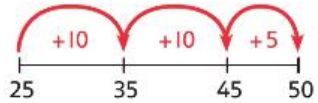
Tens	Ones

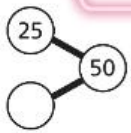
T	O
3	6
+ 2	9
6	5

Asha scored 65 points in total.

I know that 6 ones and 9 ones is 15 ones. I can exchange 10 ones for one ten. So 15 ones is the same as 1 ten and 5 ones.

b)





Sol's other ◯ lands on 25.

You could also use a number line to do this.

Think together

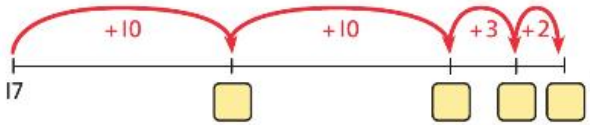
1 Asha now scores 36 and Sol scores 25.
What is the total score?

Tens	Ones

T	O
3	6
+ 2	5

The total score is ☐.

2 One ⬭ lands on 17 and one lands on 25.
What is the total score?



T	O
1	7
+ 2	5

17 + 20 = ☐

☐ + 3 = ☐

☐ + 2 = ☐

The total score is ☐.

3 One ⬭ lands on 17 and one lands on 29.
What is the total score?

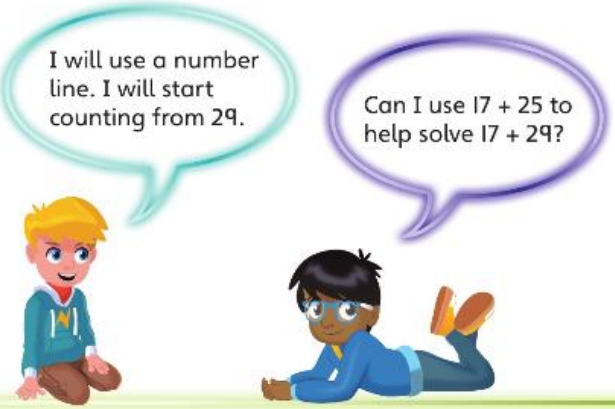
CHALLENGE

Tens	Ones

T	O
1	7
+ 2	9

17 + 29 = ☐

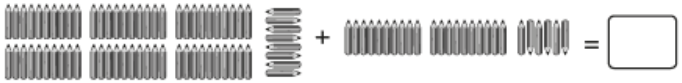
The total score is ☐.

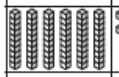
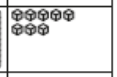


→ Practice book 2A p79

Adding two 2-digit numbers 2

1 **a)** How many  are there?

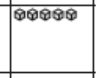


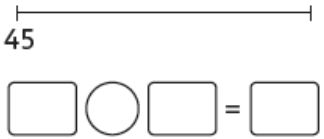
Tens	Ones
	

T	O
6	8

There are ☐  .

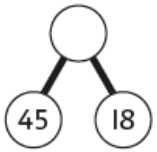
b) How many  are there?

Tens	Ones
	



There are ☐  .

2 Complete the  .



3 Jim has 53 green  and 46 red  .

How many  does he have in total?

Jim has ☐  in total.

4 17 + 15 = ☐ 

I think I can use the first sum to work out the rest of the answers.

18 + 15 = ☐

19 + 15 = ☐

15 + 17 = ☐

15 + 16 = ☐

28 + 30 = ☐

38 + 30 = ☐

48 + 30 = ☐

48 + 29 = ☐

5 Find the total.

Tens	Ones
+	

6 The numbers on the cards add to make 42.

One of them is more than 3 and less than 10.

What could the numbers be?

Is there more than one solution?

Reflect

I can add 35 and 18 by

because

Wednesday –

Subtracting a 2-digit number from another 2-digit number 1

Discover

1 a) How many eggs are left after Omar bakes a cake?

b) Omar breaks 20 eggs.

How many eggs are left now?

Share

I will start with the greatest number.

a)

T	O
4	5
– 1	2

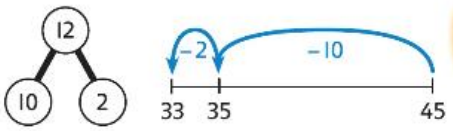
I could try crossing out 12 eggs: 1 and 2 .

T	O
4	5
– 1	2
	3

T	O
4	5
– 1	2
3	3

45 – 12 = 33

There are 33 eggs left.



I used a number line.

b)

Tens	Ones	Tens	Ones

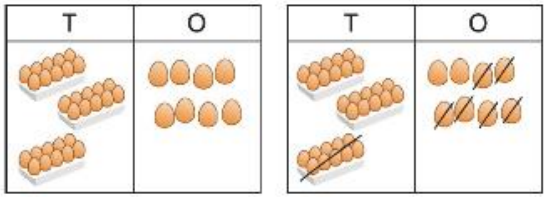
T	O
3	3
– 2	0
1	3

There are 13 eggs left.

Think together

1 There are 38 eggs. Harry uses 16 eggs.

How many eggs are left?

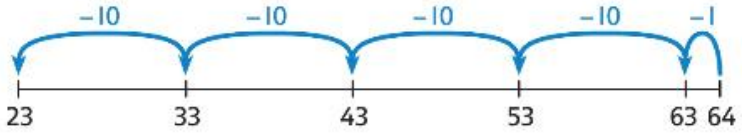


	T	O
	3	8
−	1	6
	☐	☐

38 ◯ − 16 ◯ = ☐

2 Eva has 64 eggs. She uses 41 eggs.

How many eggs does she have left?



64 − 41 = ☐

Eva has ☐ eggs left.

3 Alfie has 74 eggs. He gives 41 eggs to Rosie.

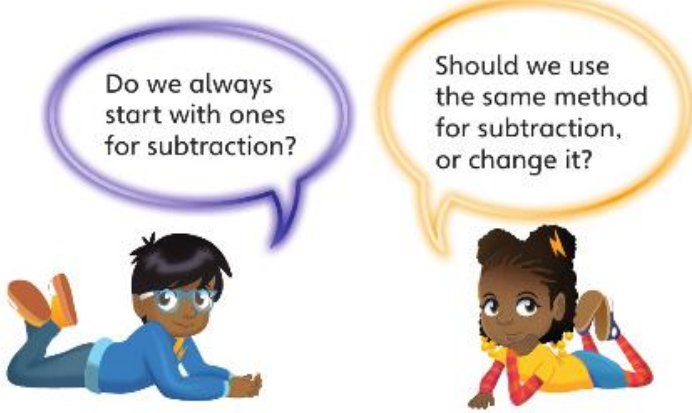
How many are left?

CHALLENGE

T	O

	T	O
	☐	☐
−	☐	☐
	☐	☐

74 − 41 = ☐



→ Practice book 2A p82

Subtracting a 2-digit number from another 2-digit number 1

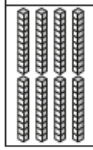
1 58 – 23

Tens	Ones
	

58 – 23 = ☐

2 Use  to show:

a) 86 – 15 = ☐

Tens	Ones
	

T	O
8	6
– 1	5
☐	☐

b) 36 – 16 = ☐

Tens	Ones

T	O
3	6
– 1	6
☐	☐

c) 62 – 41 = ☐

Tens	Ones

T	O
6	2
– 4	1
☐	☐

3 Maryam starts with 62 grapes.

She eats 20 grapes.

She has ☐ left.

Tens	Ones

4 Work out:

a) 35 – 11 = ☐

b) 45 – 11 = ☐

c) ☐ – 11 = 34

d) 56 – 12 = ☐

e) 66 – 12 = ☐

f) 76 – ☐ = 54

Can you see a connection between the questions?

5 Stella had 36 sweets.

She gave some to Ravi and has 12 left.

How many sweets did Stella give to Ravi?

36 – ☐ = 12

6 What 2-digit numbers could go in each box?

29 – ☐ = 39 – ☐

CHALLENGE

I think I see something similar about the missing numbers.

Reflect

65 – 32 = 44

Is this calculation correct? How do you know?

Thursday –

Subtracting a 2-digit number from another 2-digit number 2

Discover

1 a) How many points is the team winning by?

b) The team does not score again and wins by 15 points.

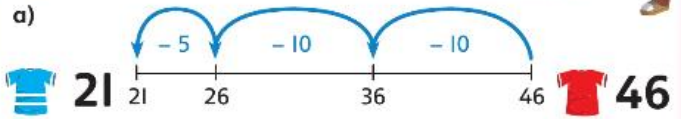
How many points will the team have at the end?

Share

I subtracted tens first, so the ones stayed the same.

I worked out the numbers in the jumps.

a)



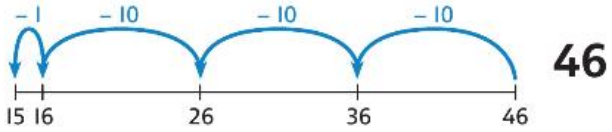
46 – 21 = 25

25 is the **difference** between 46 and 21.

The team in plain red shirts is winning by 25 points.

You could count on instead of counting back.

b) 46 – ☐ = 15



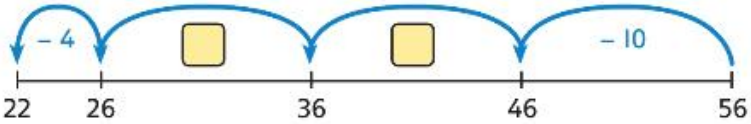
46 – 31 = 15

The team in striped blue shirts will have 31 points.

Think together

1 How many more points does [green shirt] have?

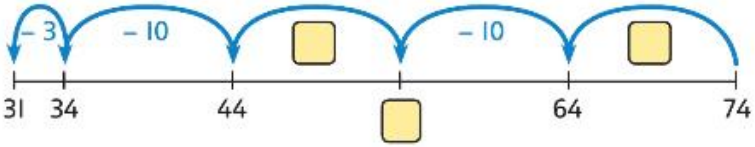
What is the difference between the scores?



56 – 22 = ☐

☐ is the difference between the scores.

2 What is the difference between the scores?



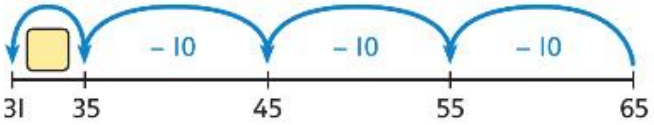
74 – 31 = ☐

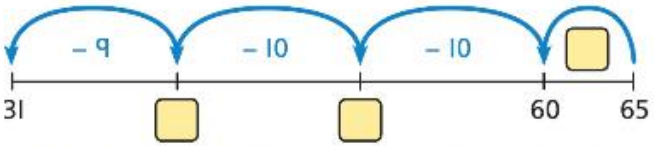
The difference between the scores is ☐.

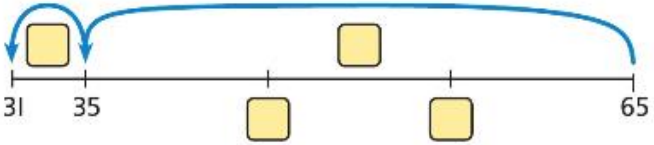
3 What is the difference between the scores?

CHALLENGE

Here are 3 ways.







The difference between the scores is ☐.

What is the same? What is different?

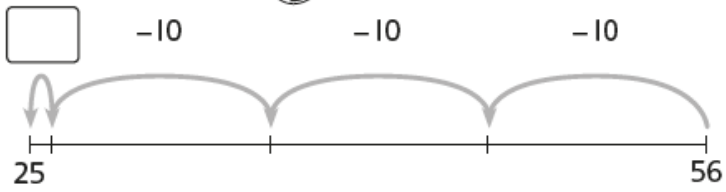
Can you find a different set of jumps to find the difference? And another?

→ Practice book 2A p85

Subtracting a 2-digit number from another 2-digit number 2

1 Penny has 56 . Ali has 25 .

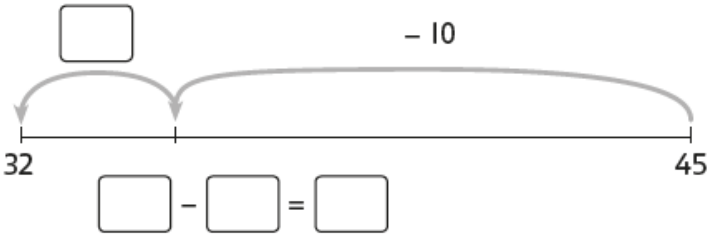
How many more does Penny have?



Penny has ☐ more.

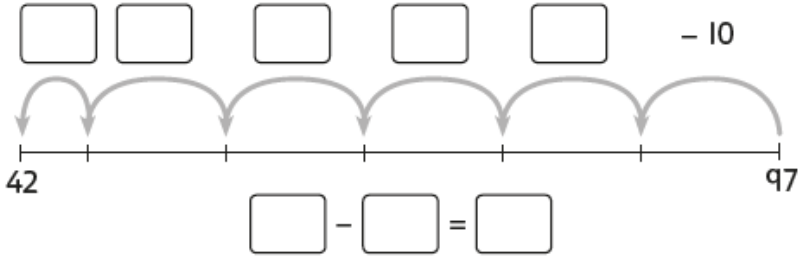
2 Class 2 has 45 . Class 1 has 32 .

How many more does Class 1 need, if the classes should have the same number?

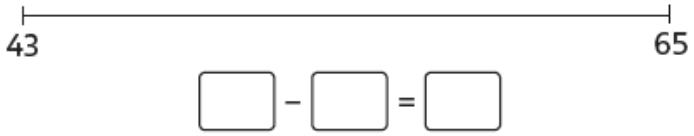


Class 1 needs ☐ more.

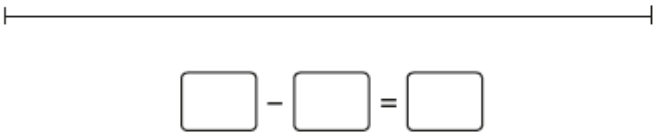
3 Find the difference between 97 and 42.



4 **a)** What is the difference between 65 and 43?



b) Work out 48 – 11.



In this question, think of the subtraction as finding the difference.

5 85 – 43 = 65 – 43

Is this calculation correct? How do you know?

CHALLENGE

6 Find the difference between 86 and 32.

Show two different ways of working it out.

Reflect

Work out 48 – 16.

I solved it by

I could also have solved it by

Thursday afternoon -

Subtracting a 2-digit number from another 2-digit number 3

Discover

1 **a)** Kara has 24 🍓.

She needs 52 to make jam.

How many more does she need to pick?

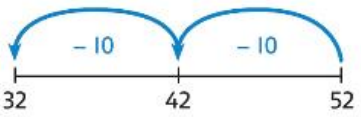
b) Ben needs 16 more 🍓 to make jam.

How many 🍓 does he have?

Share

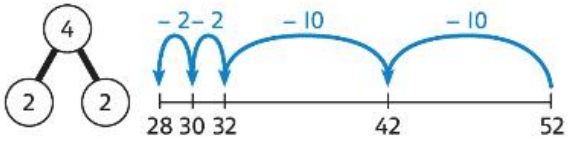
I used a number line to count back, because I need to find the difference.

a) 52 – 24



52 – 20 = 32

We know that 4 is made up of 2 and 2. This will help us.



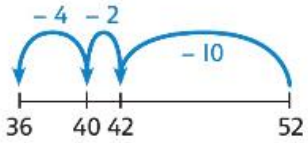
32 – 2 = 30

30 – 2 = 28

Kara needs 28 more 🍓 to make jam.

b) Ben needs 16 more to make the jam.

He needs 52 in total.



52 – 16 = 36

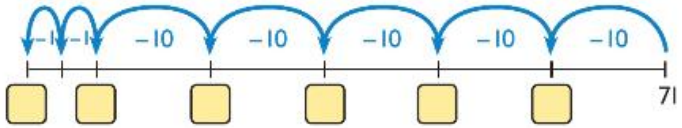
Ben has 36 .

Think together

1 Zeb has 71 .

He uses 52 to make some jam.

How many does he have left?



71 – 52 = ☐

Zeb has ☐ left over.

2 Lan has 35 .

She eats 18.

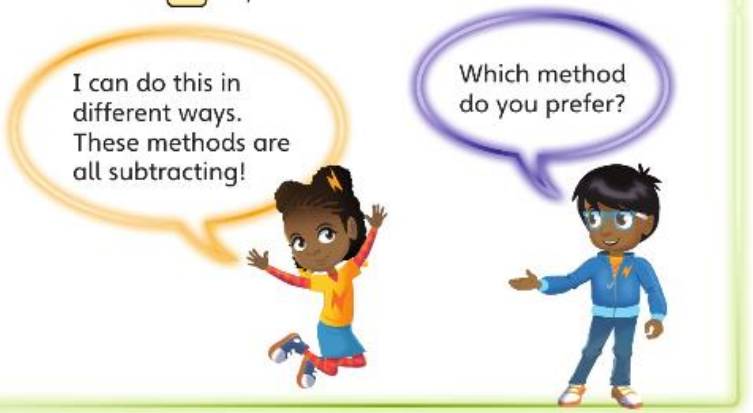
How many does she have left?

Lan has ☐ left.

3 There are 64 children picking . 17 are girls.

How many are boys?

There are ☐ boys.

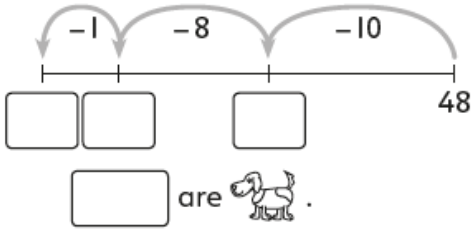


→ Practice book 2A p88

Subtracting a 2-digit number from another 2-digit number 3

1 There are 48  and  .

19 are  . How many are  ?



are .

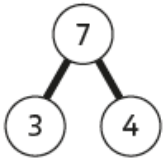
48 − 10 = ☐

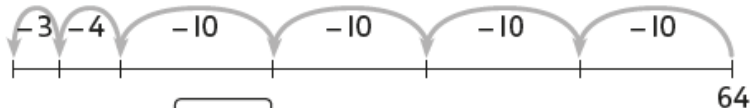
☐ − 8 = ☐

☐ − 1 = ☐

2 Eli has 64  . He gives 47 away.

How many  are left?

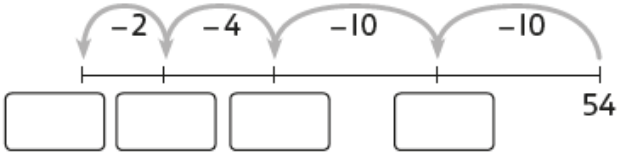




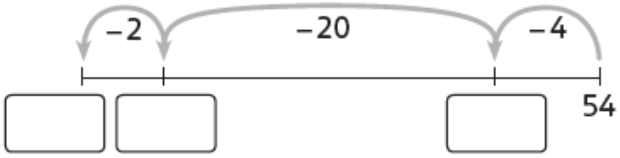
64 − 47 = ☐

There are ☐  are left.

3 Mary is working out 54 − 26.



Sam is also working out 54 − 26.



Do Mary and Sam get the same answer?

Find another way of doing the same problem.

4 27 − 13 = ☐

5 Work out:

a) 81 – 16 = ☐

b) 82 – 16 = ☐

c) 83 – ☐ = 67

d) 74 – 26 = ☐

e) 64 – 26 = ☐

f) ☐ – 36 = 38

6 a) 82 – 56 = 42 – ☐

b) 48 – ☐ = 58 – 29

c) 51 – 19 = ☐ – 29

CHALLENGE

Reflect

There are two ways I can work out 32 – ☐ = 17.

They are

Friday –

Subtracting a 2-digit number from another 2-digit number 4

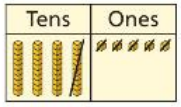
Discover

1 a) How many lengths does Susie have left?

b) How many lengths does Kay have left?

Share

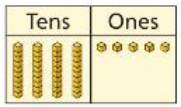
a)



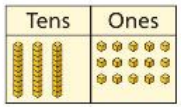
T	O
4	5
– 1	5
3	0

Susie has 30 lengths left.

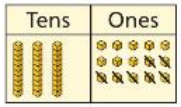
b)



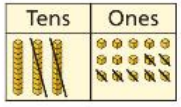
T	O
4	5
– 2	7



T	O
³4	¹5
– 2	7



T	O
³4	¹5
– 2	7
	8



T	O
³4	¹5
– 2	7
1	8

45 – 27 = 18 Kay has 18 lengths left.

Subtract the ones first, then the tens. If there are no ones left, I need to use a zero.

Remember, one ten is equal to ten ones.

Think together

1 Adults swim 64 lengths in a race.

Mr Peters has swum 47 lengths.

How many does he have left to swim?

Tens	Ones
	

	T	O
	6	4
−	4	7

Tens	Ones
	

Mr Peters has ☐ more lengths to swim.

2 Miss Stone has to swim 64 lengths.

She has 38 lengths left.

How many lengths has Miss Stone swum?

Tens	Ones
	

	T	O
	6	4
−	3	8

Miss Stone has swum ☐ lengths.

CHALLENGE

3 Layla swims 43 lengths. Oz swims 18 lengths.

How many more lengths does Layla swim?

Tens	Ones
	

	T	O
	☐	☐
−	☐	☐
	☐	☐

Layla swims ☐ more lengths than Oz.

→ Practice book 2A p91

Subtracting a 2-digit number from another 2-digit number 4

1 At a party, 15 children eat one  each.

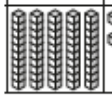
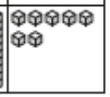
How many are left?

Tens	Ones
	

Tens	Ones
	

	T	O
	3	4
−	1	5

2 a) 57 − 28 = ☐

Tens	Ones
	
Tens	Ones

	T	O
	☐	☐
−	☐	☐
	☐	☐

b) 83 − 55 = ☐

Tens	Ones

	T	O
	☐	☐
−	☐	☐
	☐	☐

3 83 − 24 = ☐

75 − 39 = ☐

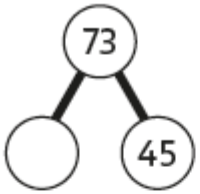
90 − 48 = ☐

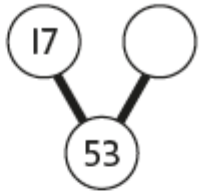
☐ = 54 − 17

☐ = 54 − 27

17 = 54 − ☐

4 Complete the .





5 True or false?
When you subtract a number ending in 7 from a number ending in 2, the answer always ends in 5.

CHALLENGE

Reflect

I know I can use subtraction when _____

_____

_____