Year 2 Questions – Addition and Subtraction December 2018

Using concrete apparatus, can you talk about the relationships Use concrete objects to check and prove whether the between the different flowers?

calculations are correct.

$$12 - 4 = 8$$

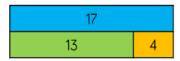
 $7 + 8 = 15$

One relationship shown by this part whole model is 15 + 5 = 20

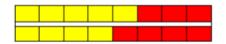
Can you write all associated fact facts in the sentences below?



Look at the bar model below. Can you write all of the sentences in the fact family?



How can we use the following representation to prove 5 + 3 = 4 + 4?



Fill in the missing symbols:

6+4	\bigcirc	6+5
6+4	\bigcirc	3+6
11 — 4	\bigcirc	12 — 5
11 – 4	Õ	12 – 4

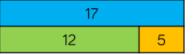
Fill in the missing numbers:

$$5+3=6+$$

 $5+3=0+6=7+$
 $0+3=0+4=5+5$

You could also do this for subtraction relationships.

Can you use the inverse operation to check 5 + 12 = 17?



How many possible inverse calculations are there?

Erin writes this calculation: 18 - 5 = 13

Which of the following could she use to check her work?

13 + 5	13 — 5
18 — 13	5 + 13

I have 3 blue pens and 4 black pens. Together I have 7 pens. Tom has 30 blue pens and 40 black pens. How many does he have in total?

Use concrete apparatus to show your thinking.

Complete the part whole models below:



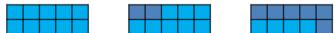
Find the missing numbers in the related facts.

$$5 + 4 = 9 \\ 50 + 40 = 0$$

$$8 = 3 + 5 \\ 80 = 30 + 0$$

$$4 = 10 - 6 \\ 40 = -60$$

Match the 10 frames to the sentences below:



One hundred equals eighty plus twenty

100 = 100 + 0

40 + 60 = 100

Fill in the missing numbers

$$2 + 6 = 8$$

 $2 - + 0 = 80$
 $20 + 60 = 10$
 $80 = 0 + 60$

Continue the pattern

90 = 100 - 1080 = 100 - 20

Can you make up a similar pattern starting with the numbers 60, 30 and 90?

Continue the number tracks below.

10	20	30					
						_	
			35	45	55		

Using a 100 square, circle the number that is 10 more than 27. Circle the number that is 10 less.

Repeat in different colours for different numbers.

Using apparatus, complete the missing boxes.

10 less		10 more
	:	
2	12	22
	37	

Create sentences based on the picture.



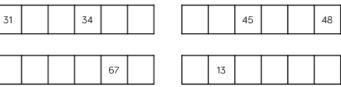
Example

There are 4 children playing in a park. One more child joins them so there will be 5 children playing together.

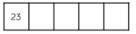
Continue the pattern

Can you create an addition pattern by adding in ones and starting at the number 13?

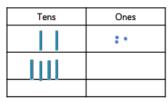
Continue the number tracks below.



Continue the number track by adding 20 each time.



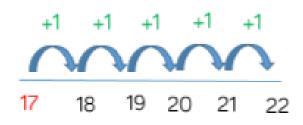
Use the place value charts and concrete materials to complete the calculations.



	2	3
+	4	0
_		

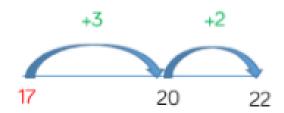
Tens	Ones

56 -30

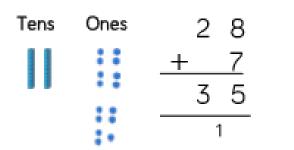


Can you put the larger number in your head and count on the smaller number? Start at 17 and count on 5

Can we use number bonds to solve the addition more efficiently?

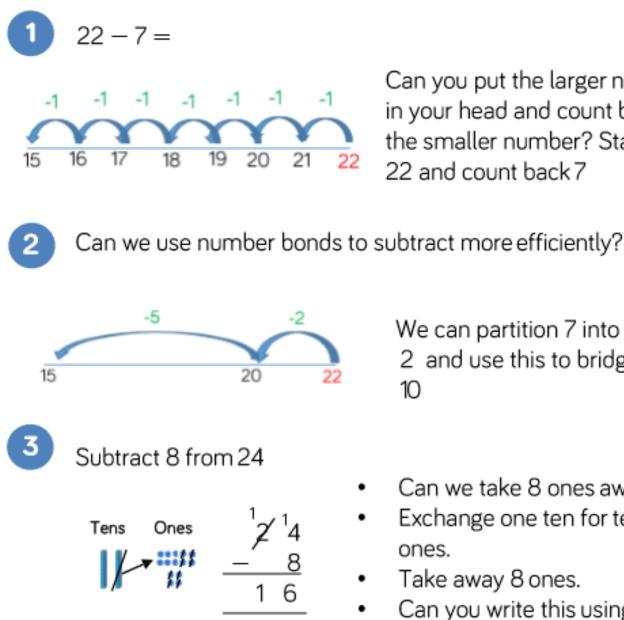


Find the total of 28 and 7



We can partition 5 into 3 and 2 and use this to bridge the 10

- Partition both the numbers.
- Add together the ones.
- Have we got 10 ones?
- Exchange 10 ones for 1 ten.
- How many ones do we have?
- How many tens do we have?



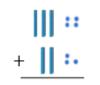
Can you put the larger number in your head and count back the smaller number? Start at 22 and count back 7

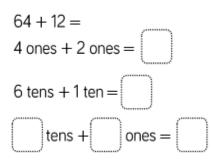
We can partition 7 into 5 and

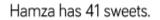
2 and use this to bridge the 10

- Can we take 8 ones away?
- Exchange one ten for ten ones.
- Take away 8 ones.
- Can you write this using the column method?

Find the sum of 34 and 23

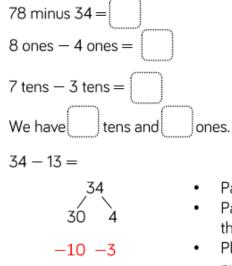






Jemima has 55 sweets.

How many sweets do they have altogether?



20 1

Subtract 13 from 28

Use a 100 square.

21 22 23 24 25 26 27 28 29 3

31 32 33 34 35 36 37 38 39 40

1 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

1 62 63 64 65 66 67 68 69 70

5 tens and 3 ones

71 72 73 74 75 76 77 78

1 82 83 84 85 86 87 88

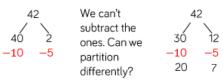
- Partition the number 34.
- Partition 13 and subtract the ones and the tens.
- Place the partitioned number back together.

	2	8
_	1	3
	1	5

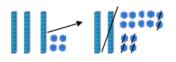
Use the number line to subtract 12 from 51.

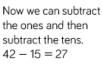
Can you subtract the ones first and then thetens? Can you partition the ones to count back to the next ten and then subtract the tens?





Take 16 away from 34



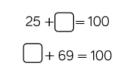


14

6 1 8

51

37



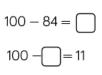
40 squares are shaded, how many are not shaded?

- 45 squares are shaded, how many are not shaded?
- 54 squares are shaded, how many are not shaded?

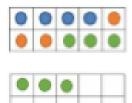
Hamza is making 100 with base 10 How much more does he need if he has:

•

Children could place their base 10 on top of a 100 piece to help calculate.



Use ten frames and counters to add the numbers 4 + 3 + 6



Can you add the numbers in a different way to find a number bond to 10?

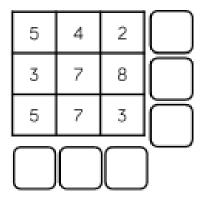
0	0	0	0	0
0	•	•	•	0

0 0

$$4 + 6 = 10$$

10 + 3 = 13

Find the totals of each row and column.



Use <, > or = to compare the number sentences.

5+4+6 ()6+5+4	7+3+807+7+3
9+2+5 ()8+3+5	8+4+202+5+8