Maths HW and FLIP

Maths Flip

Please watch the links below to help you understand the topics. You will be asked questions based on these clips.

Year 3: Represent numbers to 100 https://vimeo.com/729116287

Partition numbers to 100 https://vimeo.com/729116523

Number line to 100 https://vimeo.com/729116759

Maths Flip

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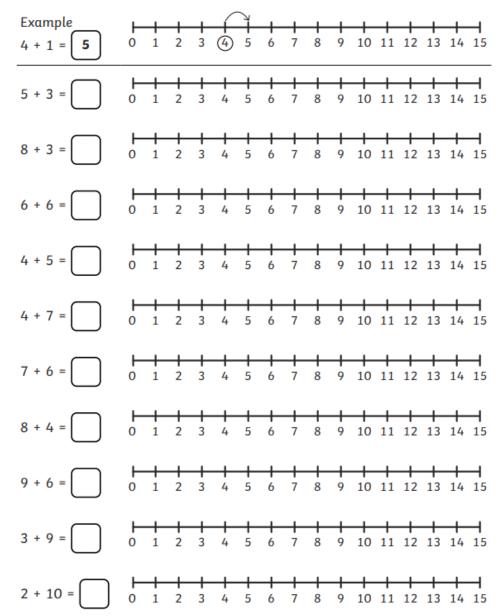
Year 4: Represent numbers to 1,000 https://vimeo.com/729237438

Partition numbers to 1,000 https://vimeo.com/729237866

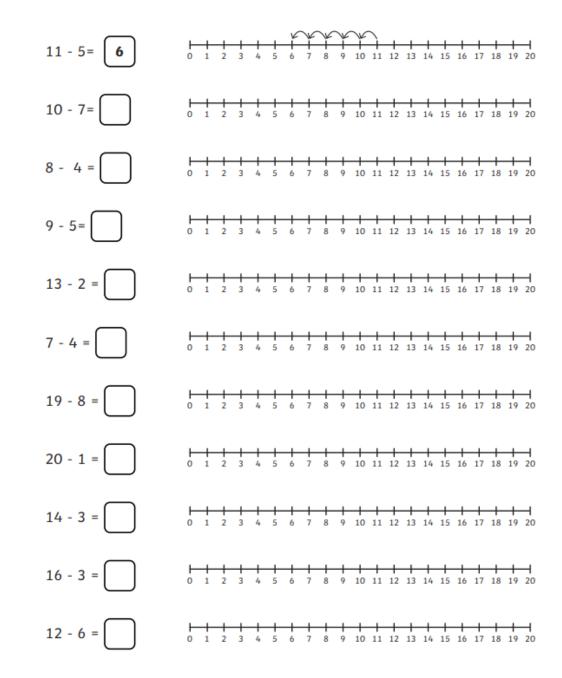
Number line to 1,000 https://vimeo.com/729238258

Year 3 HW

Addition to 20 on a Number Line



Subtraction within 20 on a Number Line



Year 3 HW

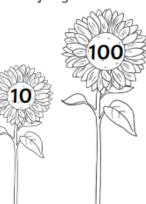
Deriving Facts to 100

For each of the following, complete the number fact to 10 and then derive the number fact to 100. The first one has been done for you.

7 + 2 = 9	7 - 4 =
70 + 20 = 90	70 - 40 =
4 + 6 =	3 + 6 =
40 + 60 =	30 + 60 =
5 - 3 =	8 - 3 =
50 - 30 =	80 - 30 =
10 - 7 =	9 + 1 =
100 - 70 =	90 + 10 =
5 + 4 =	3 - 2 =
50 + 40 =	30 - 20 =
9 - 8 =	10 - 5 =
90 - 80 =	100 - 50 =

Use the appropriate number fact to ten mentally to derive the number fact to 100.

50 + 50 =	40 + 30 =
60 - 40 =	80 - 30 =
10 + 80 =	20 + 60 =
90 - 60 =	50 - 40 =
20 + 80 =	80 - 70 =
40 + 40 =	70 - 20 =



Adding 2-Digit Numbers and Tens, Not Crossing 100

1. 30 + 10 =	2. 20 + 30 =
35 + 10 =	25 + 30 =
37 + 10 =	26 + 30 =
38 + 10 =	29 + 30 =
3. 10 + 20 =	4. 40 + 50 =
16 + 20 =	43 + 50 =
17 + 20 =	44 + 50 =
19 + 20 =	48 + 50 =
5. 50 + 30 =	6. 20 + 60 =
54 + 30 =	25 + 60 =
55 + 30 =	27 + 60 =
58 + 30 =	28 + 60 =
7. 60 + 20 =	8. 70 + 20 =
61 + 20 =	72 + 20 =
64 + 20 =	74 + 20 =
68 + 20 =	78 + 20 =
9 + 40 = 70 + 40 = 71 + 40 = 74 + 40 = 77	$10. _ + 60 = 90$ $- + 60 = 93$ $- + 60 = 96$ $- + 60 = 96$ $- + 60 = 99$

Subtracting Tens and Ones from 3-Digit Numbers, Not Crossing 100

1)	100	2)	108	3)	112	4)	116
	- 40		- 64		60		- 82
5)	120	()	101	7)	170	0)	145
5)	130	6)	101	7)	170	8)	165
	- 56		- 70		- 71		- 80
9)	128	10)	149	11)	130	12)	102
	- 70		- 70		68		- 80
13)	125	14)	130	15)	138	16)	105
	- 90		- 69		- 70		- 70
17)	109	18)	140	19)	132	20)	119
	- 50		- 99		- 30		- 54

21) 154

- 30

Adding Three One-Digit Numbers - Which 3 Numbers?

Choose 3 numbers which add to the total given. Write as a calculation.

1. Which 3 numbers add to 15?	8. Which 3 numbers add to 20?	15. Which 3 numbers add to 23?
45761	65926	46859
+= 15	+= 20	+= 23
2. Which 3 numbers add to 18?	9. Which 3 numbers add to 7?	16. Which 3 numbers add to 8?
91458	46231	23551
+= 18	+= 7	+=8
3. Which 3 numbers add to 16?	10. Which 3 numbers add to 13?	17. Which 3 numbers add to 19?
37812	35795	46859
+= 16	+= 13	+= 19
	11. Which 3 numbers add to 11?	
84568	3 4 2 5 1	87695
	+= 11	
5. Which 3 numbers add to 12?	12. Which 3 numbers add to 22?	19. Which 3 numbers add to 15?
3 2 4 5 1	78295	42635
+= 12	+= 22	+ = 15
6. Which 3 numbers add to 10?	13. Which 3 numbers add to 17?	20. Which 3 numbers add to 20?
23413	65824	67349
+= 10	+= 17	+= 20
7. Which 3 numbers add to 14?	14. Which 3 numbers add to 9?	21. Which 3 numbers add to 12?
35784	4 3 5 4 1	38125
+= 14	+= 9	+= 12

Challenge: using just the numbers 1, 2, 3, 4 and 5, find as many ways as possible of adding 3 numbers to make 8, 10 and 12.

Adding Ones to a 3-Digit Number Calculate the answers to the following:

1.	136 + 3 =	13. 529 + 4 =
2.	212 + 4 =	14. 645 + 9 =
3.	381 + 6 =	15. 713 + 8 =
4.	494 + 5 =	16. 995 + 6 =
5.	533 + 4 =	17. 165 + 7 =
6.	620 + 7 =	18. 252 + 6 =
7.	725 + 4 =	19. 395 + 9 =
8.	952 + 7 =	20. 478 + 1 =
9.	165 + 8 =	21. 546 + 7 =
10.	224 + 7 =	22. 659 + 3 =
11.	388 + 6 =	23. 765 + 3 =
12.	478 + 5 =	24. 971 + 8 =

Challenge Explain how you would use 7 + 8 = 15 to calculate 537 + 8.

5. 218 + 133						

Subtraction Calculations:

Example:

Number	My Estimate	Calculation	Answer close		Correct?
Sentence			to estimate	with Inverse	
e.g. 84 - 29	80 - 30 = 50	7 8 4 - <u>2 9</u> 5 5	50/55 = Yes!	55 +29 814	Yes!

Number Sentence	My Estimate	Calc			Answer close to estimate	Check with Inverse				Correct?	
1. 59 - 22											
2. 97 - 18											
3. 126 - 32											
4. 188 - 52											
5. 352 - 169											

Adding Hundreds to a 3-Digit Number

Calculate the answers to the following:

	13. 549 + 800 =	163 + 500 =	1.
	14. 672 + 700 =	345 + 600 =	2.
	15. 701 + 900 =	582 + 400 =	3.
	16. 927 + 600 =	273 + 300 =	4.
	17. 116 + 700 =	561 + 200 =	5.
= 1252	18. 352 +	170 + 700 =	6.
3 = 333	19	207 + 500 =	7.
	20. 824 + 300 =	719 + 100 =	8.
	21. 562 + 900 =	372 + 800 =	9.
+ 300 = 916	22	460 + 700 =	10.
= 1552	23. 752 +	508 + 900 =	11.
	24. 911 + 700 =	721 + 500 =	12.

Challenge

Explain how you would use 9 + 4 = 13 to calculate 931 + 400.

Checking 3 by 3-Digit Mixed Calculations - With Carrying and Exchanging

Calculate the answer to the following calculations and check by using the inverse (addition or subtraction). Choose the best method for you - column method, number line, near doubles etc.

34 23 57	16 59 75	92 45 137
+=	+ =	+ =
	+=	+=
=	=	= =
=	=	=
87 240 153	393 240 153	616 1163 547
+=	+ =	+=
+=	+=	+=
=	=	=

Create two addition and two subtraction calculations from each set of three numbers, writing the full calculations in the given box.

26	97	123	86	134	48	364 213 151
652	589	9 63	572	801	229	371 912 1283

Adding 3-Digit and 2-Digit Numbers - No Carrying

Calculate the answers to the following:

534	2 1 3	3 0 4	672
+ 45	+ 6 2	+ 8 4	+16
1 3 0	8 0 2	529	2 8 1
+ 5 6	+ 9 2	+ 50	+ 1 7
552	6 0 7	6 2 8	327
+36	+ 7 2	+ 2 1	+51
474	153	371	
+ 15	+ 44	+22	

Calculate the following calculations:

4 _ 2	5 3	⁸ _ ⁸
+ 15	+ 4	+ 21
467	796	84

Checking 3 by 2-Digit Mixed Calculations - With Carrying and Exchanging

Calculate the answer to the following calculations and check by using the inverse (addition or subtraction). Choose the best method for you - column method, number line, near doubles etc.

419 + 79 =	608 - 57 =		
437 - 49 =	372 + 88 =		
673 - 46 =	514 + 49 =		
586 + 97 =	970 - 74 =		

Challenge

Use 2 different methods to calculate and check this calculation. **365 + 87 =** Can you explain which method you find better?

Subtracting 2-Digit Numbers from 3-Digit Numbers No Exchanging

479 3 3 7 584 478 - 25 - 18 - 38 6 1 -748 563 652 569 - 16 - 12 32 67 --

697

- 75

387

-

51

Calculate the answers to the following:

Subtracting Two 3-Digit Numbers - With Exchanging

Calculate the answers to the following:

451	8 4 0	4 7 2	4 8 1
-218	- 5 2 5	- 2 3 8	- 3 2 3
690	726	4 2 7	5 1 9
-526	-419	- 2 3 3	- 4 5 0
353	627	6 2 2	951
-136	-471	- 3 9 4	-652
Calculate the follow	ving calculations:		
73	7 0	0 1	
-47	- 2 9	- 4 8	
81	1 6	3 3	

Calculate the following calculations:

298

- 36

3 _ 7	5	4	_		8		8
- 5	-		2	-		6	_
3 0 2	5	1	5		8	3	3

677

- 72