booklet p. 115

Date:_____

W.S (3.C.2) : Add and subtract up to 1000

Objectives: Add and subtract whole numbers up to 3- digits (with and without regrouping of ones or tens).

In subtraction the answer which is called the difference is always smaller than the number in the beginning.

Example: 17 - 3 = 4

greater number - smaller number = the difference

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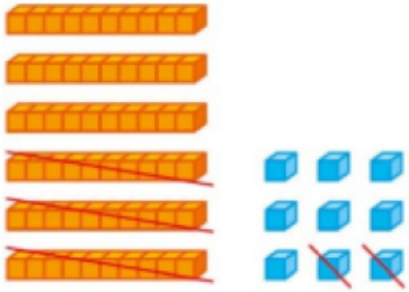
Q1. Basket A has 69 ropes. Basket B has 32 ropes.

What is the **difference** between the two baskets?

Tens Ones



	10s	1s
	6	9
-	3	2
	3	7

Step 1: Subtract the ones.
9 ones - 2 ones = 7 ones

Step 2: Subtract the tens.
6 tens - 3 tens = 3 tens

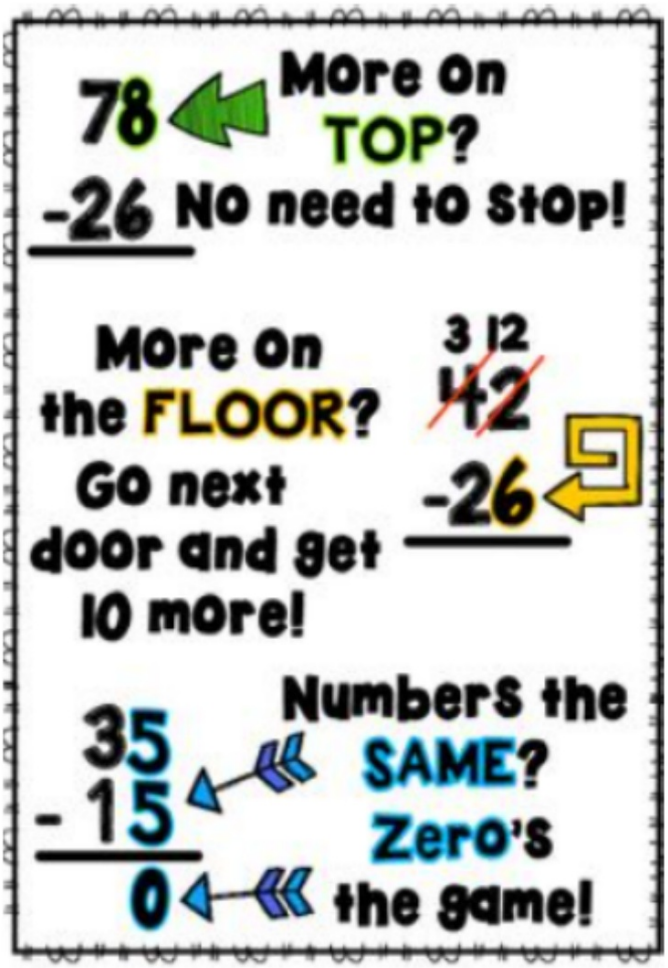
69 - 32 = 37

The difference between 69 and 32 is 37.

Q2. Subtract to find the difference.

21 − 10 = 11	42 − 11 = 31	12 − 10 = 02
51 − 21 = 30	43 − 33 = 10	82 − 30 = 52
76 − 34 = 42	36 − 16 = 20	78 − 24 = 54

- In subtraction just like addition we start subtracting from the ones then tens then hundreds and so on.
- But sometimes the digit in the ones place value of the first number is smaller than the digit in the ones place value of the second number, in this case we knock on the neighbor's door (tens place value) and we borrow one ten to be added to the ones place.


78
-26
More on TOP?
No need to stop!
More on the FLOOR?
Go next door and get 10 more!
3 12
42
-26
9
35
- 15
0
Numbers the SAME?
Zero's the game!

Q3. Subtract and regroup to find the difference, then check your answer.

a)

$$\begin{array}{r} 8\ \ 16 \\ \cancel{9}\ \ \cancel{6} \\ -\ 7\ \ 8 \\ \hline 1\ \ 8 \\ \hline \end{array}$$

our answer

Check your answer

$$\begin{array}{r} 1\ \ 8 \\ +\ 7\ \ 8 \\ \hline 9\ \ 6 \end{array}$$

to check our answer

we take the answer from the subtraction and add to it the number above it.

if the sum is the number we started with in subtraction the our answer is correct.

b)
$$\begin{array}{r} {\not 7}^{\,6}\ {\not 1}^{\,11} \\ -\ 3\ \ 9 \\ \hline 3\ \ 2 \\ \hline \end{array}$$

Check your answer

$$\begin{array}{r} 3\ \ 2 \\ +\ 3\ \ 9 \\ \hline 7\ \ 1 \end{array}$$

to check our answer

we take the answer from the subtraction and add to it the number above it.

if the sum is the number we started with in subtraction the our answer is correct.

to check our answer

we take the answer from the subtraction and add to it the number above it.

if the sum is the number we started with in subtraction the our answer is correct.

Q4. Jon bakes 87 vanilla and chocolate cupcakes.

36 are vanilla cupcakes.

How many chocolate cupcakes does he bake?

$$87 - 36 = 51$$

$$\begin{array}{r} 8\ 7 \\ -\ 3\ 6 \\ \hline 5\ 1 \end{array}$$

Check your answer

$$\begin{array}{r} 5\ 1 \\ +\ 3\ 6 \\ \hline 8\ 7 \end{array}$$

Q5. Subtract.

$\begin{array}{r} {}^{8}\cancel{9}\,{}^{14}\cancel{4} \\ -\ 57 \\ \hline 37 \end{array}$	$\begin{array}{r} {}^{6}\cancel{7}\,{}^{10}\cancel{0} \\ -\ 37 \\ \hline 33 \end{array}$	$\begin{array}{r} {}^{3}\cancel{4}\,{}^{18}\cancel{8} \\ -\ 39 \\ \hline 09 \end{array}$
$\begin{array}{r} 52 \\ -\ 31 \\ \hline 21 \end{array}$	$\begin{array}{r} {}^{5}\cancel{6}\,{}^{18}\cancel{8} \\ -\ 49 \\ \hline 19 \end{array}$	$\begin{array}{r} {}^{7}\cancel{8}\,{}^{12}\cancel{2} \\ -\ 57 \\ \hline 25 \end{array}$

7 10 8 0 - 6 4 1 6	2 18 3 8 - 2 9 0 9	6 11 7 1 - 3 7 3 4
5 13 6 3 - 3 6 2 7	4 15 5 5 - 4 8 0 7	3 15 4 5 - 2 7 1 8

Q6. Find the difference between 32 and 87.

$$87 - 32 = 55$$

$$\begin{array}{r} 8\ 7 \\ -\ 3\ 2 \\ \hline 5\ 5 \end{array}$$

Check your answer

$$\begin{array}{r} 5\ 5 \\ +\ 3\ 2 \\ \hline 8\ 7 \end{array}$$

Q7. Find the number that is 25 less than 69.

69 - 25 = 44

$$\begin{array}{r} 6\ 9 \\ -\ 2\ 5 \\ \hline 4\ 4 \end{array}$$

Q8. A florist has 432 roses. She sold some roses.

She has 318 roses left.

How many roses did she sell? 114

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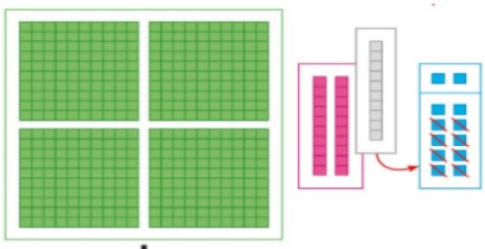
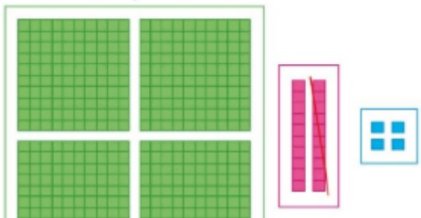


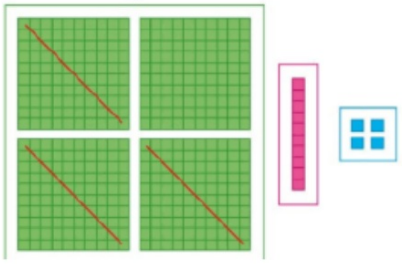
Step 1: Subtract the ones.

	100s	10s	1s
	4	2 ~~3~~	12 ~~2~~
−	3	1	8
			4



Step 2: Subtract the tens.

	100s	10s	1s
	4	2 ~~3~~	12 ~~2~~
−	3	1	8
		1	4



Step 3: Subtract the hundreds.

	100s	10s	1s
	4	2 ~~3~~	12 ~~2~~
−	3	1	8
	1	1	4

If the digit of the tens place value of the first number is smaller than the digit in the tens place value of the second number, then we borrow from the neighbor (the hundreds place value), like so.

	Hundreds	Tens	Ones
	6	11	
	~~7~~	1	2
−	4	6	0
	2	5	2

Q9. Subtract to find the difference for each subtraction problem.

a)
$$\begin{array}{r} {}^{2}\not{3}\ {}^{14}\not{4}\ 5 \\ -\ 1\ 5\ 5 \\ \hline 1\ 9\ 0 \end{array}$$

b)
$$\begin{array}{r} 8\ {}^{8}\not{9}\ {}^{10}\not{0} \\ -\ 7\ 8\ 7 \\ \hline 1\ 0\ 3 \end{array}$$

c)
$$\begin{array}{r} {}^{3}\not{4}\ {}^{14}\not{4}\ 4 \\ -\ 2\ 6\ 3 \\ \hline 1\ 8\ 1 \end{array}$$

d)
$$\begin{array}{r} 6\ {}^{2}\not{3}\ {}^{13}\not{3} \\ -\ 1\ 2\ 5 \\ \hline 5\ 0\ 8 \end{array}$$

Sometimes we need to borrow two times from the tens and the hundreds place value.

Example:

	H	T	O
		10	
	1	~~0~~	14
	~~2~~	~~1~~	~~4~~
−	1	8	9
	0	2	5

For a challenge, try solving these exercises.