New

Perfect Composite Mathematics

Including Activity Worksheets

CLASS – II

[In accordance with the latest NCF prepared by the NCERT, New Delhi]

SPECIAL EDITION FOR ARMY SCHOOLS

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Preface

This book is one from the series New Perfect Composite Mathematics and is based on the syllabus developed by the National Council of Educational Research and Training (NCERT), New Delhi.

The subject matter is produced in such a way that it relates to the environment and focuses on the development and understanding of the students. It also aims to improve their thinking and reasoning skills. All books in this series are activity based and are written in a simple language.

The subject matter has been presented in graded form. The age, the learning ability and the mathematical difficulties faced by the students at all levels have been kept in mind while presenting difficult concepts.

The syllabus includes the four fundamental operations, namely, addition, subtraction, multiplication and division. These operations have been dealt in a step-by-step approach to enable students understand exactly what is to be done. The traditional and stereotype questions have been avoided.

Salient Features of this book are:

- The book covers the entire prescribed syllabus.
- Number system upto 4 digits has been explained by observing and counting objects.
- Addition and subtraction of 3-digit numbers without regrouping (carrying) and without decomposing (borrowing) have been taught.
- Conversion of tens to ones and ones to tens has been taught in a practical way.
- Addition and subtraction of 2-digit numbers with regrouping and with decomposing have been developed systematically in different ways.
- Mental problems, wherever possible, have been incorporated to enhance the thinking power of the tiny tots.
- Addition and subtraction of length, weight and capacity measures have been explained thoroughly with the help of examples.
- Distinction between 2-D and 3-D figures has been explained.
- Due care has been taken to present data handling topic by taking simple and interesting examples for students of this age group.
- Patterns in numbers and shapes have also been included.
- Topics on Time and Calendar have been introduced.
- **Questions in the form of quizzes, puzzles and cross numbers** have been given to avoid stereotype questions.
- To avoid the stress of examination, question papers have been replaced by introducing **Activity Worksheets**.
- Challenging problems under the heading **Challenge** have also been included.
- A few high level questions have been given under the head "Put on Your Thinking Cap".

The books of the series will surely prove to be useful for the students.

I am thankful to the teachers for adopting our books and encouraging us to bring out the new edition.

I would like to thank Mrs. Sunita Jai Singh and Mrs. Shuchi Goyal for their valuable suggestions which helped me in bringing the series in the present form.

Last but not the least, I am thankful to the publishers who have taken great pains in making the books reader-friendly.

Suggestions for further improvement of the series will be gratefully acknowledged.

AUTHOR

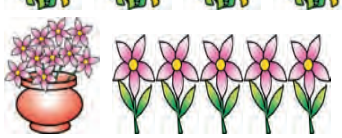
Contents

Warm-Up

1. Fill in the missing numbers:

	2	3					8		
11			14		16				
	22					27			30
31				35			38		
		43				47			
	52				56				60
61			64				68		
	72			75					80
		83						89	
91								99	100

2. Count and fill in the placeholders:

	Tens	Ones		Number	Number Name
	2	3	=	23	*Twenty Three*
			=		.....
			=		.....
			=		.....
			=		.....
			=		.....

3. Write in expanded form:

75	=	70	+	5
69	=		+	
38	=		+	
92	=		+	
74	=		+	

4. Write in short form:

80	+	9	=	89
10	+	6	=	
20	+	3	=	
40	+	5	=	
30	+	7	=	

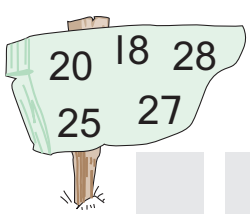
5. Write the number that comes before:

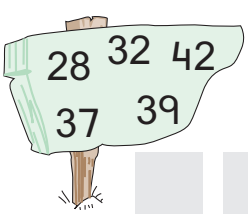
6. Write the number that comes after:

7. Write the numbers between given numbers:

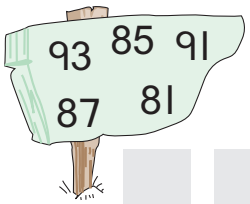
20	21	22		32		35
87		89		54		57
16		18		46		49
98		100		77		80

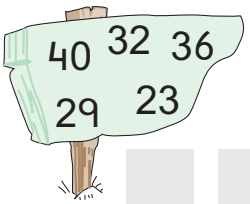
8. Write the numbers in increasing order:





9. Write the numbers in decreasing order:





10. Circle the smallest number:

43 69 42 14 40

11. Circle the greatest number:

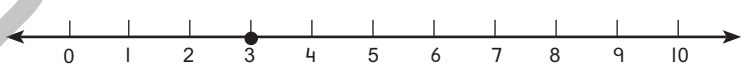
39 99 69 90 91

12. Put > or <:

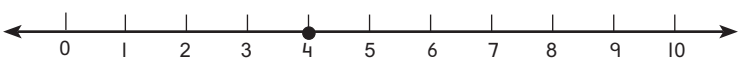
7	70	17	27
39	53	92	90
63	36	40	14

13. Add on number line:

3 + 7 =

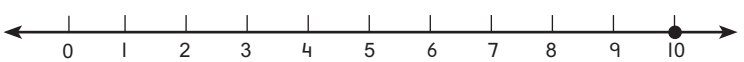


4 + 2 =

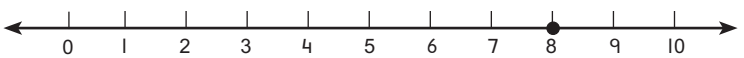


14. Subtract on number line:

10 – 3 =



8 – 6 =



15. Find the sums:

a. 43 + 21 = 64

b. 46 + 12 =

c. 24 + 11 =

d. 30 + 7 =

e. 13 + 32 =

f. 26 + 10 =

g. 61 + 17 =

h. 24 + 14 =

16. Find the differences:

a. 77 − 14 = 63

b. 68 − 23 =

c. 96 − 43 =

d. 99 − 12 =

e. 88 − 41 =

f. 79 − 21 =

g. 65 − 32 =

h. 98 − 30 =

17. There are 21 dogs, 33 goats and 15 cows in a field. How many animals are there altogether?

____ dogs
\+ ____ goats
\+ ____ cows
_____
____ animals
_____

18. Priya had 46 sweets. She gave away 12 sweets. How many sweets were left?

____ sweets
− ____ sweets
_____
____ sweets
_____

19. Fill in the blanks:

(a) 6 + 6 + 6 = ____ × 6

(b) 3 × 4 = ____ × 3

(c) ____ × 8 = 8 × 2

(d) 5 + 5 = ____ × 5

20. Multiply:

4 × 2 =	6 × 5 =
8 × 3 =	6 × 2 =
5 × 4 =	3 × 9 =
7 × 7 =	10 × 10 =

21. Do as directed:

Name the animal.

Who is 3rd from the left? ..... .

Who is 2nd from the right? ..... .

Fill in the blanks.

The monkey is ..... from the left.

The bear is ..... from the right.

1. Three Digit Numbers

Forming 3-digit Numbers

=

Ten ones make one ten

=

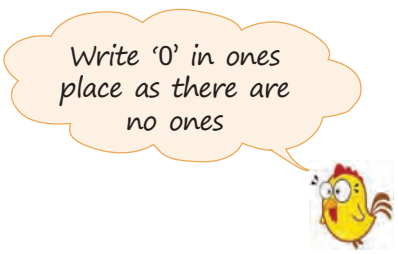
Ten tens make one hundred

+

One hundred and one ten

H	T	O
1	1	0

= 110



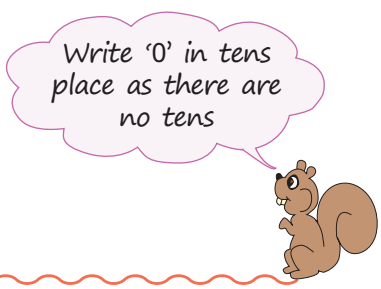
We read it as **one hundred ten**.

+

1 hundred and 3 ones

H	T	O
1	0	3

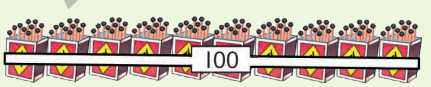
= 103



We read it as **one hundred three**.

Numbers (101-200)

Fill in the boxes:

	H T O	Number	Number Name
	1 0 1	101	One hundred one
			One hundred six
			One hundred twenty
			One hundred forty
			One hundred fifty two
			One hundred sixty
			One hundred seventy four
			One hundred eighty three
			One hundred ninety
	2 0 0	200	Two hundred

To the teacher: Hundred matchsticks given on the left are to be counted every time as learnt in class I.

Write the numbers in order from 101 to 200:

101			106	110
111	113		117	
121		125	128	
131		134		140
141	143		148	
151		155		160
161			167	
		174		179
	182		188	
191			196	200

Write the following numbers in figures:

One hundred eighty two

182

One hundred ninety

One hundred forty five

One hundred thirty nine

One hundred twenty eight

One hundred seven

Numbers (201-300)

Fill in the boxes:

		H	T	O	Number	Number Name
		2	0	5	205	Two hundred five
						Two hundred twenty eight
						Two hundred thirty
						Two hundred forty
						Two hundred fifty one
						Two hundred sixty seven
						Two hundred seventy three
						Two hundred eighty nine
						Two hundred ninety
		3	0	0	300	Three hundred

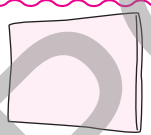
To the teacher: Encourage the students to write '0' where there are no ones or tens.

Write the numbers in order from 201 to 300:

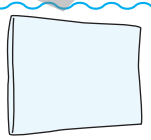
201	204	210
	215	219
223		227
231		240
241	246	
252	255	
261		268
273		277
282		289
291	294	300

Write the following numbers in figures:

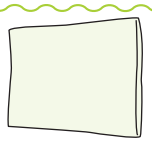
Two hundred seventy six



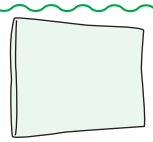
Two hundred four



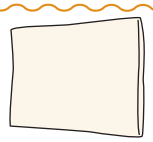
Two hundred fifty



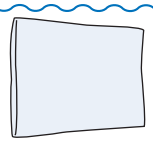
Two hundred thirteen



Two hundred nine



Three hundred



Numbers (301-400)

Fill in the boxes:

		H	T	O	Number	Number Name
		3	0	7	307	Three hundred seven
						Three hundred twenty one
						Three hundred thirty three
						Three hundred forty
						Three hundred fifty
						Three hundred sixty four
						Three hundred seventy two
						Three hundred eighty eight
						Three hundred ninety
		4	0	0	400	Four hundred

To the teacher: Encourage the students to write '0' where there are no ones or tens.

Write the numbers in order from 301 to 400:

301

311

321

331

341

351

361

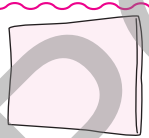
371

381

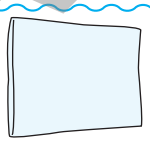
391 400

Write the following numbers in figures:

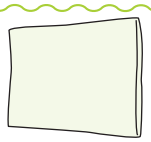
Three hundred ninety nine



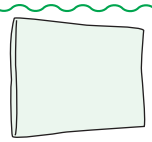
Three hundred three



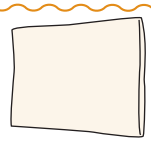
Three hundred eleven



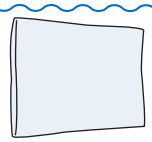
Three hundred forty five



Three hundred twenty six



Three hundred eighty



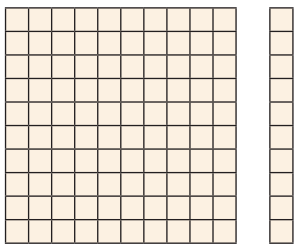
ACTIVITY WORKSHEET 1

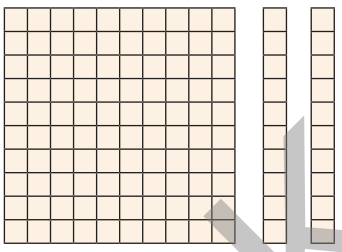
(Numbers 101 – 400)

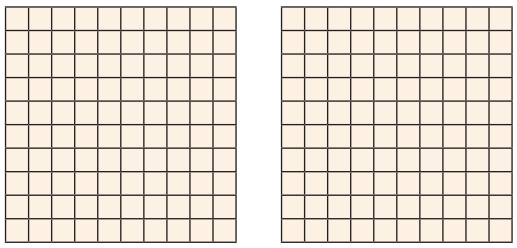
1. Complete the ladder by filling in the numbers that come just before and just after the given numbers.

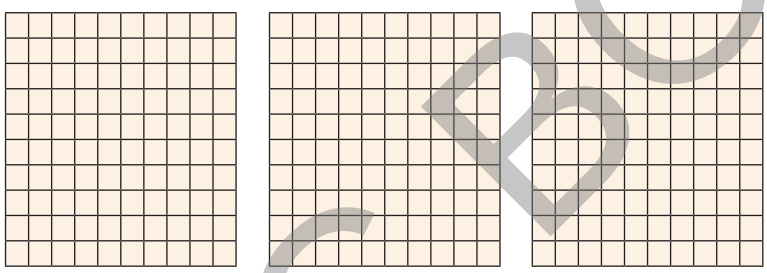
168					
169	210	154	339	185	250
170					

2. Write the correct numeral against each of the following:

(a)  = ...

(b)  = ...

(c)  = ...

(d)  = ...

3. Write the number name:

(a) 121 .....

(b) 205 .....

(c) 356 .....

(d) 289 .....

(e) 310 .....

(f) 164 .....

4. Complete the chain by filling in the missing numbers:

(a) 136, ... , 138, ... , 140, ... , ... , 143

(b) 268, ... , ..., 271, ... , 273, ...

(c) 298, ... , ... , 301, ... , ... , 304, ...

(d) ..... , 390, ... , ... , 393, ... , ... , 396

Complete the grids (401-700).

401								409	
			414			417			
		423							430
		433			436				
441							448		
				455					460
			464			467			
	472							479	
481				485					
		493							500

501									
							518		
			524						
						537			
		543							
							558		
								569	
				575					
581									
									600

601									
					616				
			624						
	632								
		643							
							658		
				665					
								679	
						687			
									700

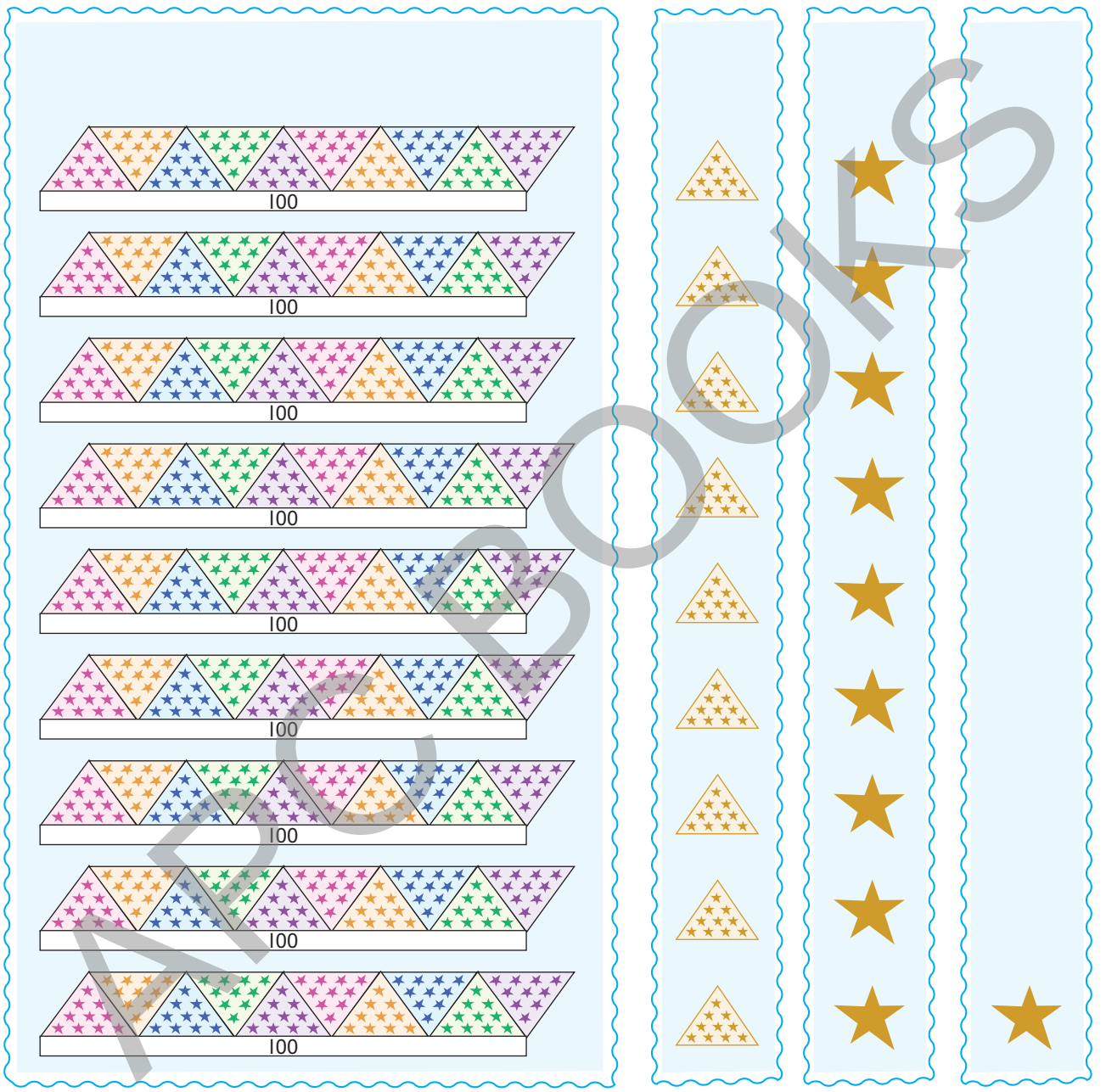
Complete the grids (701-999).

701							708		
				715					
	722								730
					736				
								749	
		753							
						767			
			774						
							788		
	792								800

801									810
811				815					
					826				
		833							
						847			
								859	
	862								
							878		
			884						
891									900

	902								
			914						
		923						929	
					936				
			944				948		
	952								
						967			
				975				979	
			984						
	992							999	

The Number One Thousand



9 Hundreds | 9 Tens | 9 Ones | 1 One

Also, 9 Hundreds + 9 Tens + 9 ones + 1 one

= 1000 *One thousand*

To the teacher: Make clear to the students that 999 and 1 more make 1000.

Number Names (401-1000)

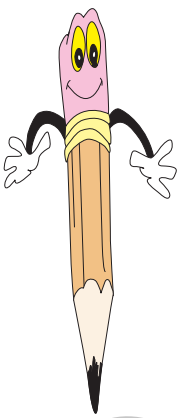
Write the following numbers in figures:

Four hundred ninety four 494

Six hundred fifty seven .....

Six hundred eighteen .....

Nine hundred eighty four .....



Five hundred nine .....

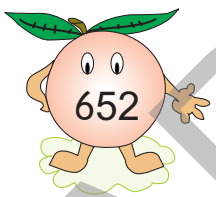
Eight hundred fifteen .....

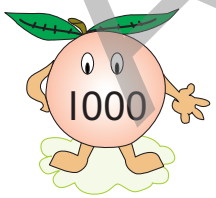
Seven hundred sixty .....

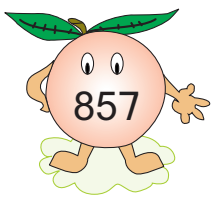
One thousand .....

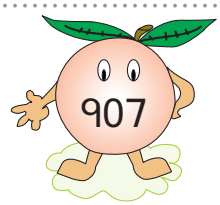
Write the number names:

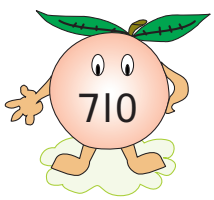
Four hundred ninety eight





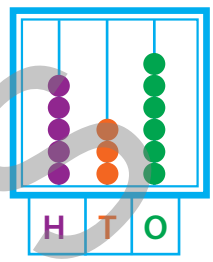






3-digit Numbers on Abacus

The abacus in the adjoining picture has three spikes showing O (ones), T (tens) and H (hundreds).



Spike H has 5 beads means 5 hundreds.

Spike T has 3 beads means 3 tens.

Spike O has 6 beads means 6 ones.

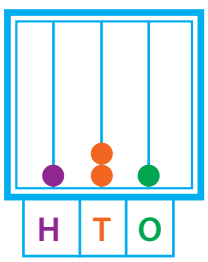
Therefore, the number is

Five hundred thirty six.

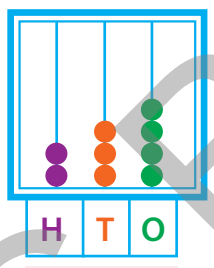
H	T	O
5	3	6

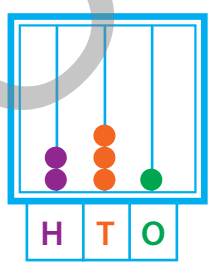
i.e.,

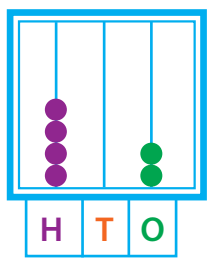
Read the numbers shown on the abacus and fill in the placeholders:

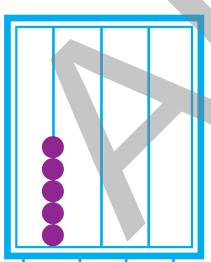


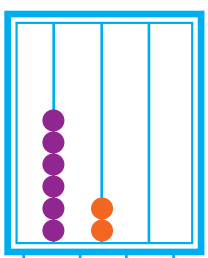
One hundred twenty one

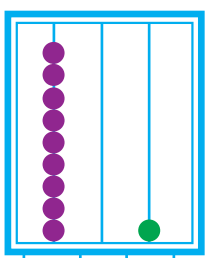


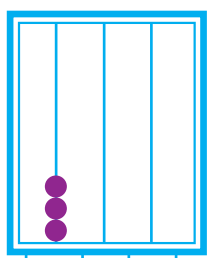












Before-After

What number comes before?

492 493

157

203

541

976

800

375

614

423

520

675

739

What number comes after?

987 988

857

125

376

999

431

872

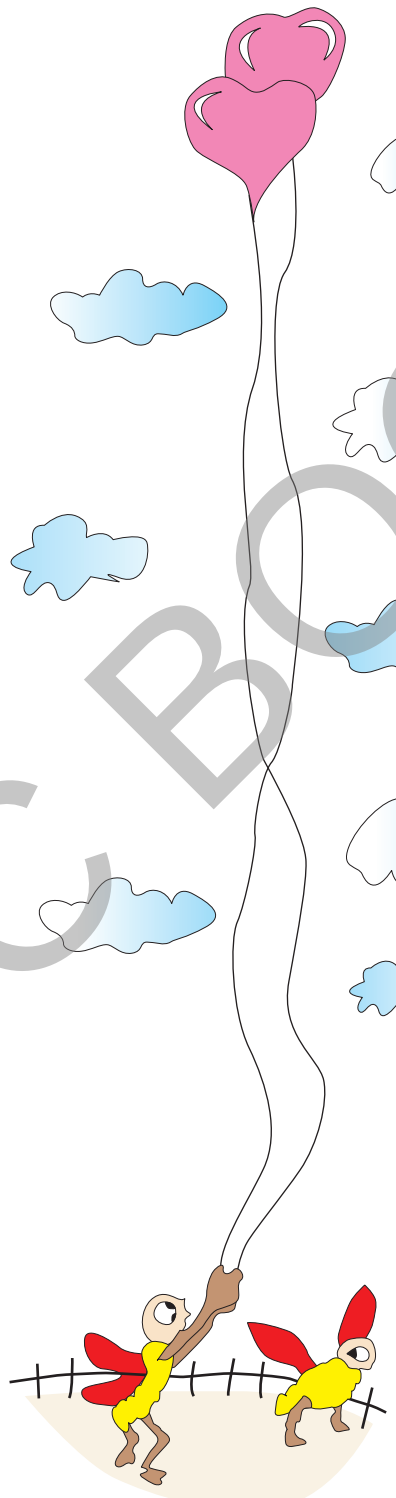
378

529

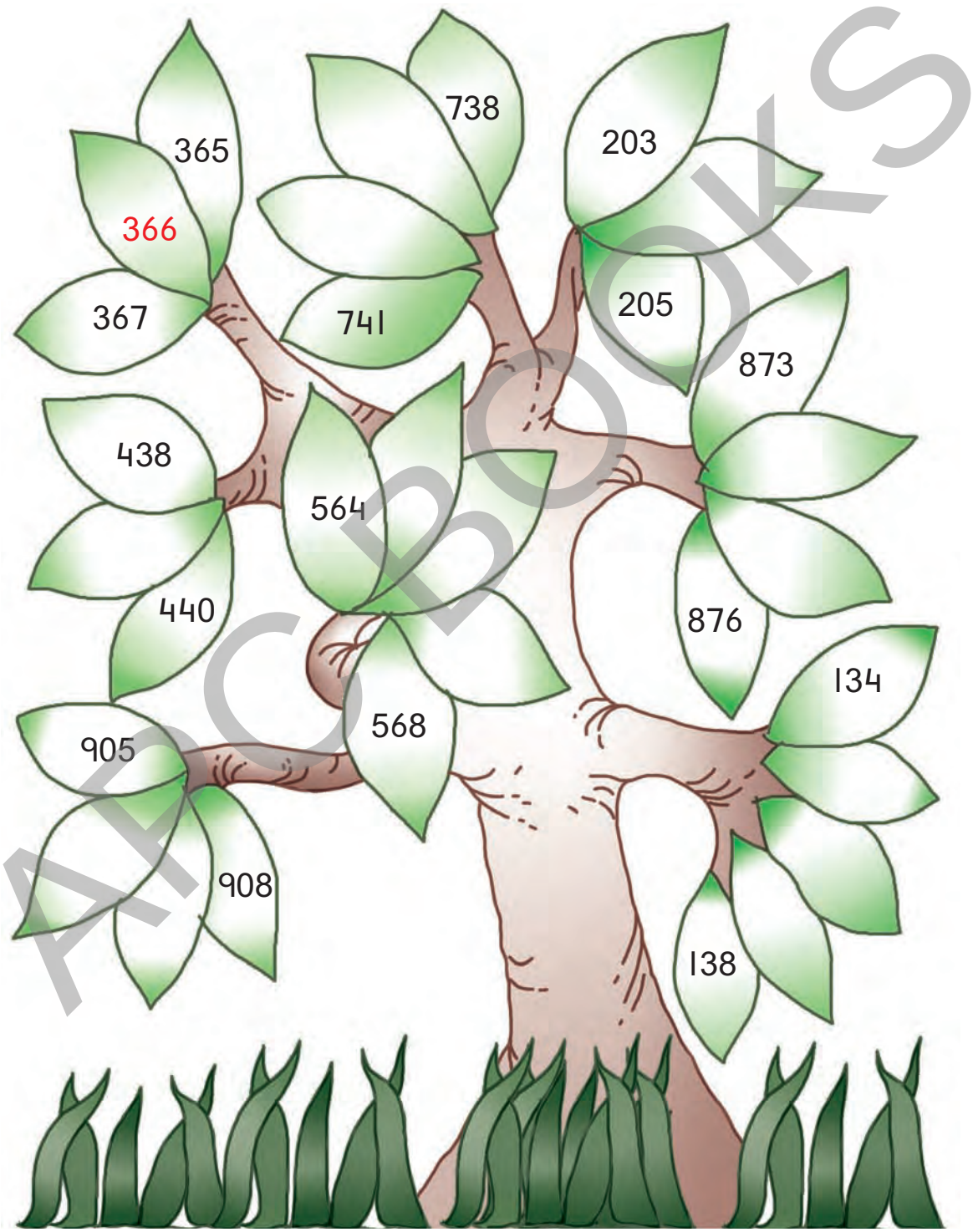
600

728

576



Write the numbers between the given numbers:



Expanded Form

Fill in the placeholders to make correct statements:

548 = 5 hundreds + 4 tens + 8 ones

= 500 + 40 + 8

Write in expanded form:

548 = 500 + 40 + 8

328 = ☐ + ☐ + ☐

432 = ☐ + ☐ + ☐

517 = ☐ + ☐ + ☐

220 = ☐ + ☐ + ☐

785 = ☐ + ☐ + ☐

905 = ☐ + ☐ + ☐

740 = ☐ + ☐ + ☐

647 = ☐ + ☐ + ☐

273 = ☐ + ☐ + ☐

688 = ☐ + ☐ + ☐

Write in short form:

800 + 50 + 1 = 851

400 + 30 + 8 = ☐

200 + 40 + 5 = ☐

900 + 0 + 4 = ☐

300 + 30 + 9 = ☐

900 + 10 + 9 = ☐

600 + 30 + 6 = ☐

800 + 20 + 0 = ☐

700 + 60 + 1 = ☐

Hundreds, Tens and Ones

Encircle the number which shows:

3 hundreds	234	325	241
3 tens	438	762	359
8 ones	708	682	891
2 tens	122	290	902
1 hundred	801	810	108
7 ones	703	307	870
9 tens	490	966	489
6 ones	365	687	346
5 hundreds	305	255	553
3 tens	302	134	683
4 ones	404	456	348
8 hundreds	458	856	389
9 tens	489	293	920
0 ones	302	450	836

Encircle Bill's  number:

It has 8 hundreds and 6 ones.

286 826 682 268 862

Place Value and Face Value

The expanded form of 457 = 4 hundreds + 5 tens + 7 ones
= 400 + 50 + 7

7 is in **ones** place, so the place value of 7 is 7 and face value is 7.
5 is in **tens** place, so the place value of 5 is 50 and face value is 5.
4 is in **hundreds** place, so the place value of 4 is 400 and face value is 4.

We write it in the tabular form:

H	T	O	Place value	Face value
4	5	7	7	7
			50	5
			400	4

Face value is the digit itself.

Place value of a digit tells us if it is in ones, tens or hundreds place in the number

Write the place value of the coloured digit:

89	85
136	129
240	740
307	895
63	958

Write the place value of each digit in tabular form:

H	T	O
7	3	5
		.....
		.....
		.....

H	T	O
8	0	6
		.....
		.....
		.....

H	T	O
4	2	2
		.....
		.....
		.....

Formation of Numbers

1, 2, 3, ... 8, 9 are all **1-digit** numbers
10, 11, 12, ... 98, 99 are all **2-digit** numbers
100, 101, 102, ... 998, 999 are all **3-digit** numbers

Let us use digits 2, 3 to form two 2-digit numbers.

23 32

If we repeat the digits, the numbers formed are

23 32 22 33

Form 2-digit numbers using the following digits:

	Digits not repeated	Digits repeated
3, 5		
4, 8		
2, 7		

Use digits 7 and 0 to form 2-digit numbers with and without repetition.

70 (when digits not repeated)

70 and 77 (when digits are repeated)

07 is not a 2-digit number

CHALLENGE

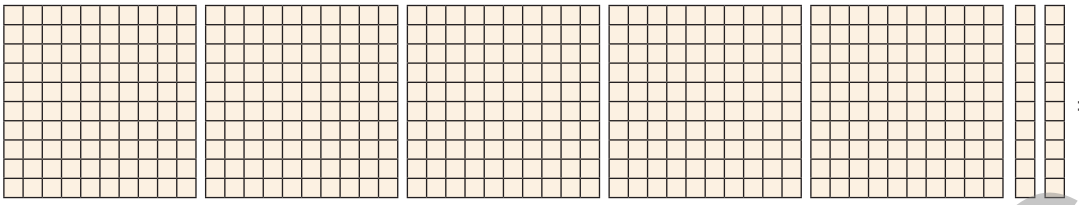
Using each of the numbers, 3, 5 and 2 only once, write the numbers which show 2 at hundreds place.

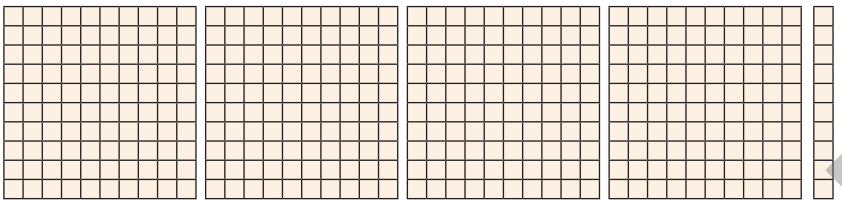
To the teacher: Explain that the digits can be repeated.

ACTIVITY WORKSHEET 2

(Numbers 401 – 1000)

1. Write the correct numeral against each:

(a)  = ...

(b)  = ...

2. Match the number with its number name:

770	Eight hundred eighty two
515	Seven hundred seventy
882	Four hundred forty six
446	Five hundred fifteen

3. Complete the expanded form:

(a) 415 = 400 + ... + ...

(b) 539 = ... + ... + 9

(c) 803 = ... + ...

(d) 776 = ... + 70 + ...

4. Fill in the blanks:

(a) The place value of 7 in 978 is ..... .

(b) The digit 2 in 628 is in ..... place and the digit 6 is in ..... place.

(c) The numbers formed by using 6 and 4 digits only once, are ..... and ..... .

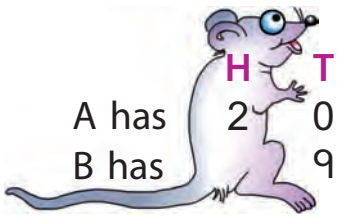
5. (a) Using each of the digits 7, 5 and 4 only once write the numbers that show 5 at hundreds place ..... , ...

(b) Encircle the house number which has 4 hundreds and 2 ones.

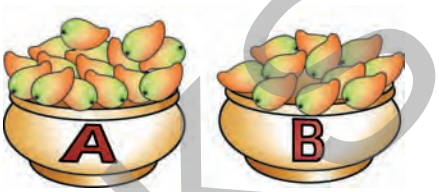
246 426 624 462 642 264

Comparison of Numbers

There are two baskets A and B.



	H	T	O	
A has	2	0	3	mangoes
B has		9	8	mangoes



Amul is asked to take any one basket.
He decides to take the one with more mangoes.
203 has 3 digits and 98 has 2 digits.
3 digits are more than 2 digits.
∴ 203 > 98

He takes the basket A.

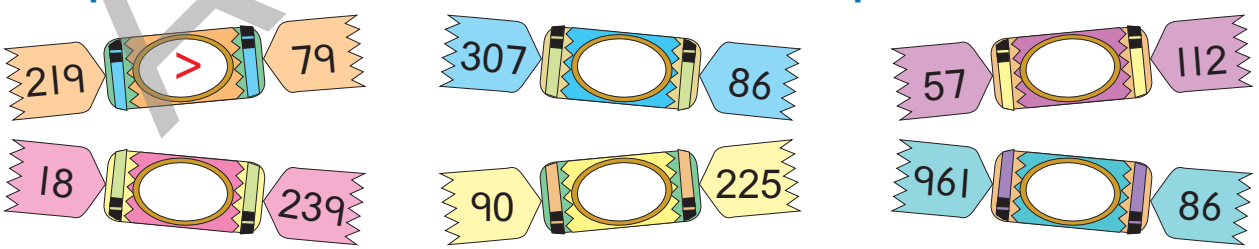
There are two purses A and B.

	H	T	O	
A contains		6	7	rupees
B contains	1	1	5	rupees

Chhavi is asked to take the one which contains more money.
67 has 2 digits and 115 has 3 digits.
3 digits are more than 2 digits.
∴ 67 < 115

She takes the purse B.

Compare the numbers and use > or < in the placeholders:



To the teacher: Explain that the number with more digits is greater than the number with less digits.

Let us compare two numbers 527 and 643.
Which of these two numbers is greater?
Ah! Here both numbers have three digits.

	H	T	O
5 is in the hundreds place	5	2	7
6 is in the hundreds place	6	4	3

6 > 5

∴ 643 > 527

Which of the two numbers 837 or 865 is greater?
Hey, here again both numbers have three digits.
But the digits at the hundreds places are equal.

	H	T	O
3 is in the tens place	8	3	7
6 is in the tens place	8	6	5

6 > 3

∴ 865 > 837

Out of 932 and 938, which is lesser?

The digits at the hundreds place and tens place are equal.

	H	T	O
2 is in ones place	9	3	2
8 is in ones place	9	3	8

2 < 8

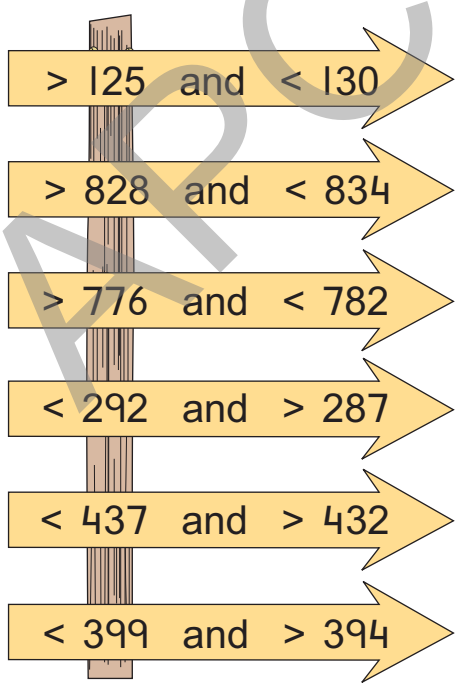
∴ 932 < 938

To the teacher: Ask the students to check the digits first at hundreds place, then at tens place and lastly at ones place to compare 3-digit numbers.

Use > or < to make correct sentences:

175 < 210	507 473	129 123
598 510	191 199	614 598
255 257	681 673	258 250
627 563	276 196	705 728
319 296	791 742	358 398
800 799	300 299	829 828
429 415	840 848	478 471
915 899	437 491	940 979

Write the numbers that are:



126, 127, 128, 129

291, 290, 289, 288

Greatest Number

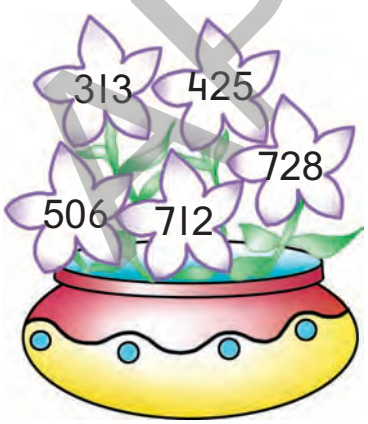
Find the greatest number: 203, 514, 629, 178.

H	T	O
2	0	3
5	1	4
6	2	9
1	7	8

∴ 629 is the greatest number.

Encircle the greatest number:

Write the greatest number:



Which purse has maximum money?

Smallest Number

Find the smallest number: 219, 327, 124, 473.

Compare the digits at the hundreds place.

H	T	O
2	1	9
3	2	7
1	2	4
4	7	3

1 is the smallest digit.

∴ 124 is the smallest number.

Find the smallest number: 437, 215, 329, 227.

Compare the digits at the hundreds place.

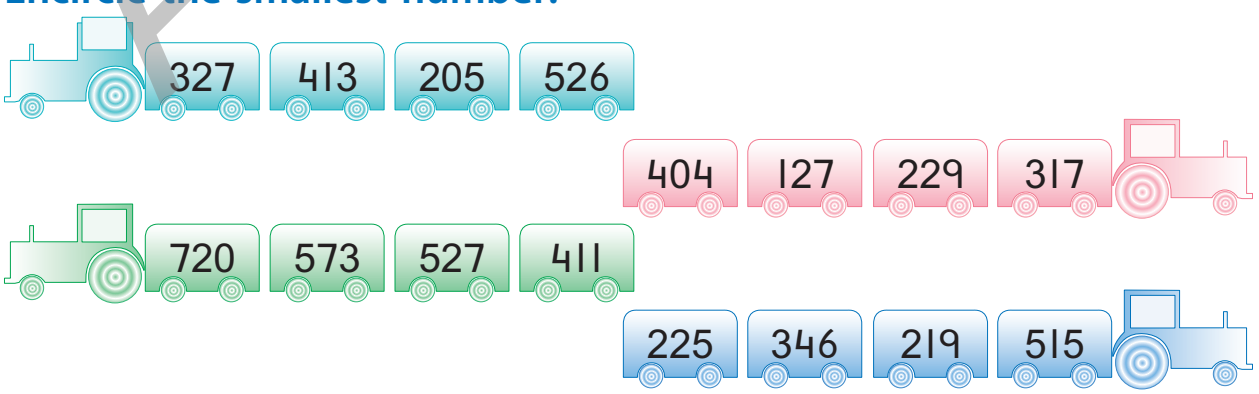
H	T	O
4	3	7
2	1	5
3	2	9
2	2	7

2 is the smallest digit.
Now compare 215 and 227.

Now, compare the digits at the tens place.

1 is the smallest digit.
∴ 215 is the smallest number.

Encircle the smallest number:



Write in ascending (increasing) order:

513,	325,	611,	712
325	513	611	712
729,	693,	742,	666
404,	581,	339,	286
228,	374,	125,	196
329,	422,	280,	308

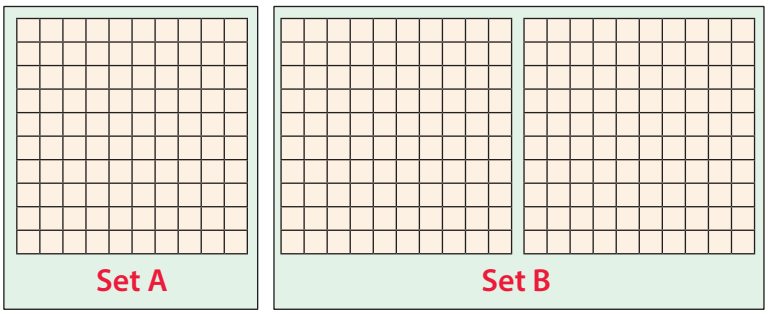
Write in descending (decreasing) order:

84,	339,	112,	809
809	339	112	84
146,	193,	225,	208
987,	345,	654,	808
777,	707,	770,	526

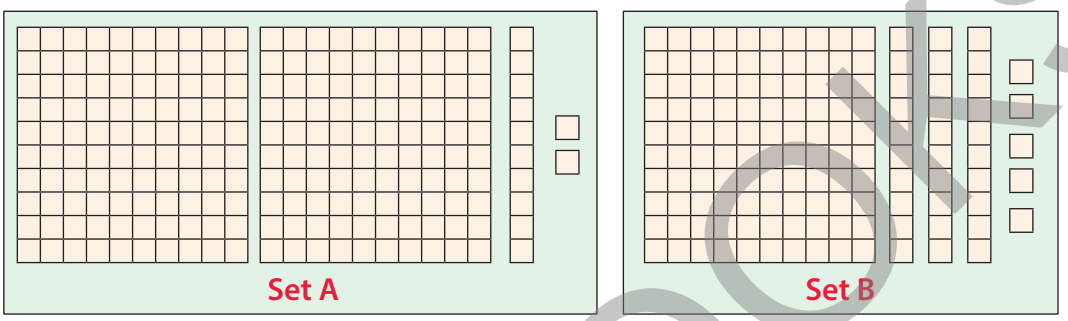
ACTIVITY WORKSHEET 3

(Comparison of Numbers)

1. Which set is greater? Write the answer in the space provided.

(a) 

= .....

(b) 

= .....

2. Which is greater? Write in the blanks.

(a) 360 or 316 ..... (b) 81 or 801 .....

3. Arrange the numbers from the train in the placeholders in the descending order.

4. Arrange the numbers from the train in the placeholders in the ascending order.

5. Form 3-digit numbers using 8, 4 and 6.

Write the greatest number.

Write the smallest number.

Write any other number.

2. Addition

2-Digit Numbers (without Regrouping)

Add 23 and 52 using expanded form:

23 = 2 tens + 3 ones

+ 52 = ____ tens + ____ ones

= ____ tens + 5 ones = ____

∴ 23 + 52 = ____

Add 46 and 50 using expanded form:

46 = ____ tens + ____ ones

+ 50 = ____ tens + ____ ones

= ____ tens + ____ ones = ____

∴ 46 + 50 = ____

Vertical Addition:

T	O
2	9
+ 3	0

T	O
6	6
+ 2	3

T	O
2	6
+ 4	2

T	O
2	2
+ 6	4

T	O
6	8
1	0
+ 1	1

T	O
1	2
2	2
+ 6	3

T	O
4	3
0	1
+ 4	5

T	O
5	0
1	3
+ 3	2

Using Expanded Form

Add 234 and 425 using expanded form:

234 = 2 hundreds + 3 tens + 4 ones

\+ 425 = 4 hundreds + 2 tens + 5 ones

= 6 hundreds + 5 tens + 9 ones = 659

∴ 234 + 425 = 659

Add 421 and 357 using expanded form:

421 = ☐ hundreds + ☐ tens + ☐ ones

\+ 357 = ☐ hundreds + ☐ tens + ☐ ones

= ☐ hundreds + ☐ tens + ☐ ones = ☐

∴ 421 + 357 = ☐

Add 345 and 523 using expanded form:

345 = ☐ hundreds + ☐ tens + ☐ ones

\+ 523 = ☐ hundreds + ☐ tens + ☐ ones

= ☐ hundreds + ☐ tens + ☐ ones = ☐

∴ 345 + 523 = ☐

Add 154 and 605 using expanded form:

154 = ☐ hundreds + ☐ tens + ☐ ones

\+ 605 = ☐ hundreds + ☐ tens + ☐ ones

= ☐ hundreds + ☐ tens + ☐ ones = ☐

∴ 154 + 605 = ☐

3-Digit Numbers (without Regrouping)

Vertical Addition

Add 234 and 315:

Adding ones: 4 + 5 = 9

Adding tens: 3 + 1 = 4

Adding hundreds: 2 + 3 = 5

Thus 234 + 315 = 549

H	T	O
2	3	4
+ 3	1	5
5	4	9

Add:

H	T	O
2	4	2
+ 3	2	5

242 + 325 = ____

H	T	O
4	7	2
+ 4	1	7

472 + 417 = ____

H	T	O
3	2	5
+ 1	3	2

325 + 132 = ____

H	T	O
2	3	8
+ 4	3	1

238 + 431 = ____

H	T	O
4	1	6
+ 3	2	2

416 + 322 = ____

H	T	O
5	0	3
+ 1	6	2

503 + 162 = ____

H	T	O
7	2	5
+ 2	5	3

725 + 253 = ____

H	T	O
3	0	9
+ 4	9	0

309 + 490 = ____

H	T	O
4	2	7
+ 2	7	2

427 + 272 = ____

Add:

1 1 2 + 2 0 3	1 3 5 + 3 2 3	6 0 8 + 9 1	3 3 3 + 2 1 6
7 2 5 + 1 0 3	3 4 7 + 6 5 2	6 2 8 + 1 7 1	4 2 6 + 2 6 2
3 0 8 + 5 9 1	6 3 7 + 2 5 1	1 0 1 + 3 7 0	2 2 0 + 6 6
1 2 7 + 2 6 0	2 3 4 + 3 0 0	6 8 1 + 1 0 7	4 0 9 + 3 8 0
4 4 3 + 2 0 4	1 4 2 + 1 0 1	1 4 3 + 5 2	3 1 4 + 2 3 1
2 3 1 + 1 4	1 4 2 + 2 0 1	2 0 1 + 1 4 2	5 0 2 + 2 3 5

Addition Stories

Rohan has 365 marbles.
Cherry has 204 marbles.
How many marbles do they have altogether?

```
  365
+ 204
  569
```

John solved 126 questions.
Jatin solved 262 questions.
How many questions did they solve?

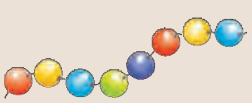
A shopkeeper sold 258 eggs on Monday.
He sold 321 eggs on Tuesday.
How many eggs did he sell in two days?

There are 463 boys and
225 girls in a school.
How many students are there in the school?

One basket contains 325 oranges.
Another basket contains 341 mangoes.
How many fruits are there in the baskets?

A packet has 256 English books.
Another packet has 302 Hindi books.
Find the total number of books.

One necklace has 325 beads.
Another necklace has 240 beads.
Find the total number of beads.



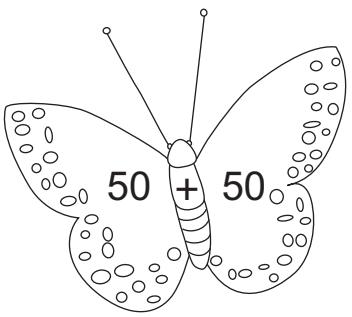
Mental Maths

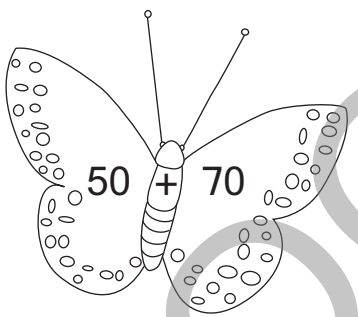
Add and colour:

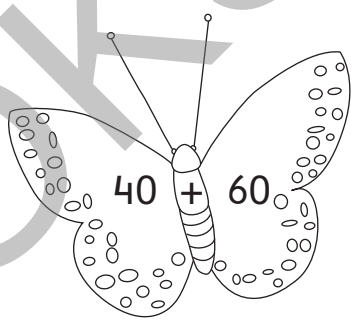
The sum will tell you the colour.

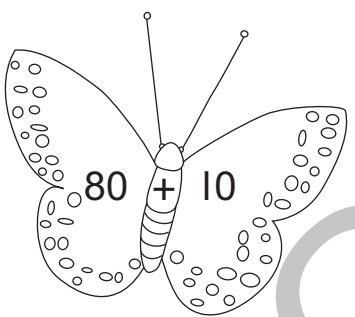
80
90 
100 
110 

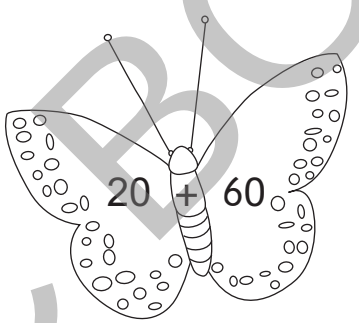
120 
130 
140 
150 

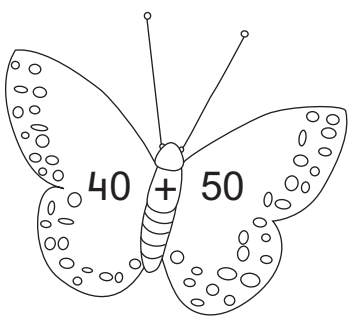


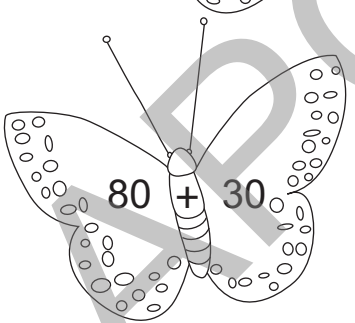


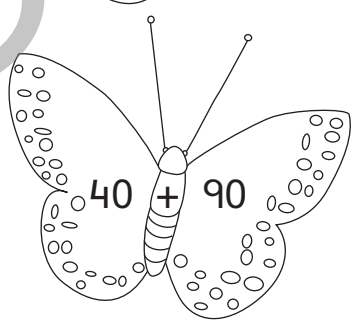


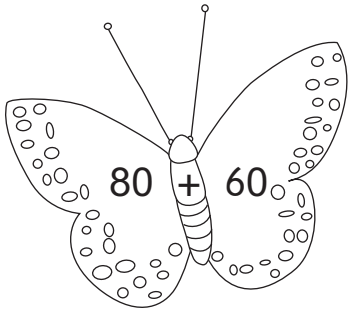


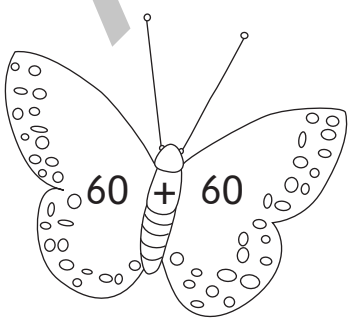


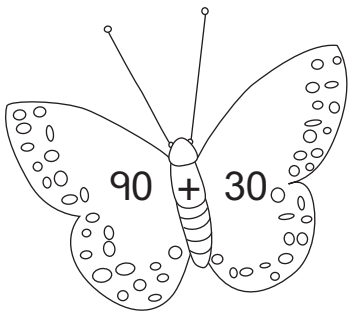


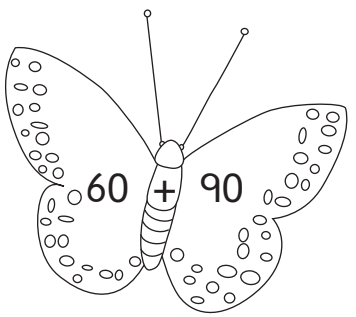




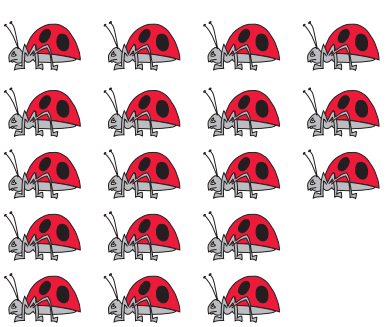






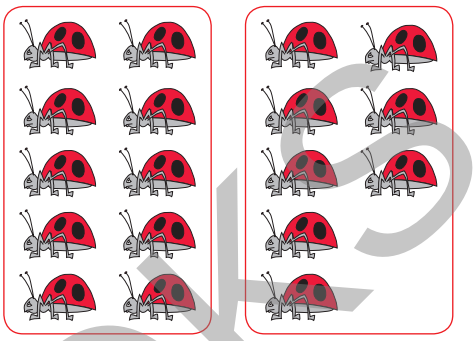


Regrouping of Numbers (Ones to Tens)



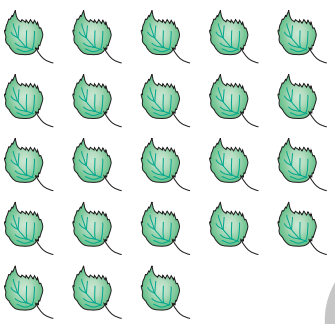
18 ones

can be regrouped as



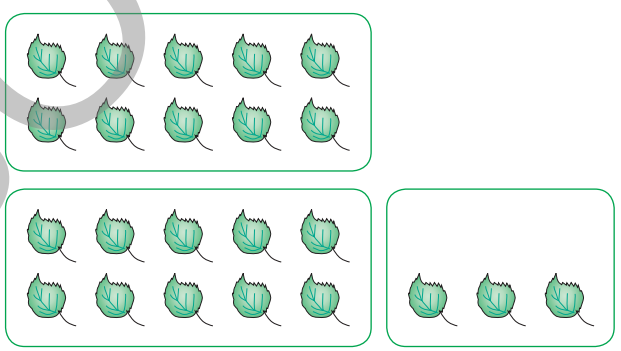
1 ten 8 ones

18 ones = 1 ten + 8 ones
18 = 10 + 8



23 ones

can be regrouped as



2 tens 3 ones

23 ones = 2 tens + 3 ones
23 = 20 + 3

Fill in the placeholders:

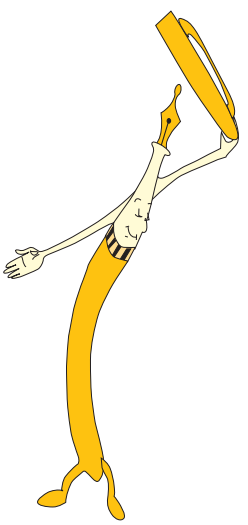
14 ones = ☐ ten + 4 ones

17 ones = ☐ ten + 7 ones

25 ones = 2 tens + ☐ ones

49 ones = ☐ tens + 9 ones

73 ones = ☐ tens + ☐ ones



2-Digit Numbers (with Regrouping)

Add 39 and 46

39 = 3 tens + 9 ones

+ 46 = 4 tens + 6 ones

Sum = 7 tens + 15 ones

= 7 tens + 1 ten + 5 ones

= 8 tens + 5 ones

∴ 39 + 46 = 85

Fill in the placeholders:

43 = ☐ tens + ☐ ones

+39 = ☐ tens + ☐ ones

Sum = ☐ tens + ☐ ones

= ☐ tens + ☐ ten + ☐ ones

= ☐ tens + ☐ ones

∴ 43 + 39 = ☐

36 = ☐ tens + ☐ ones

+57 = ☐ tens + ☐ ones

Sum = ☐ tens + ☐ ones

= ☐ tens + ☐ ten + ☐ ones

= ☐ tens + ☐ ones

∴ 36 + 57 = ☐

73 = ☐ tens + ☐ ones

+19 = ☐ ten + ☐ ones

Sum = ☐ tens + ☐ ones

= ☐ tens + ☐ ten + ☐ ones

= ☐ tens + ☐ ones

∴ 73 + 19 = ☐

58 = ☐ tens + ☐ ones

+9 = ☐ tens + ☐ ones

Sum = ☐ tens + ☐ ones

= ☐ tens + ☐ ten + ☐ ones

= ☐ tens + ☐ ones

∴ 58 + 9 = ☐

2-Digit Numbers (with Carrying Over)

Add 28 and 19

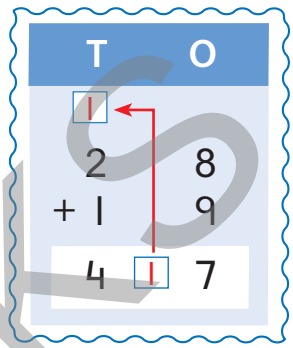
Adding ones: 8 + 9 = 17 ones

17 ones = 1 ten + 7 ones

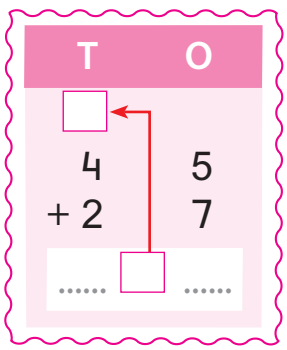
1 ten is carried over to tens, leaving 7 in ones.

Adding tens: 1 + 2 + 1 = 4 tens

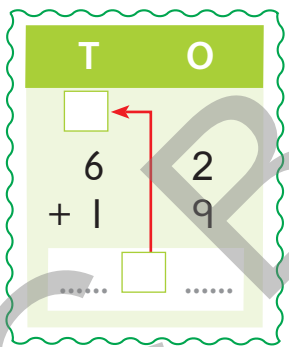
Hence 28 + 19 = 47



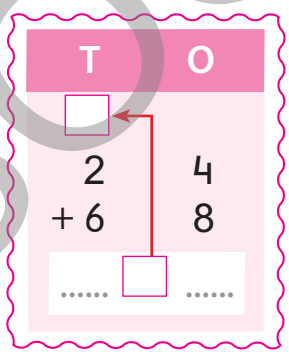
Add:



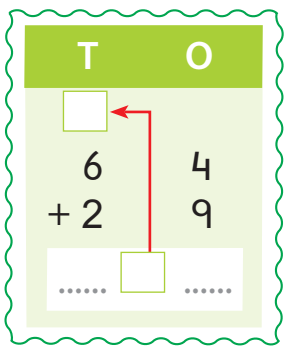
45 + 27 = ...



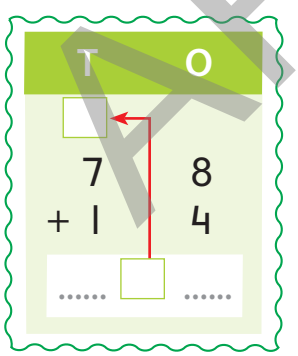
62 + 19 = ...



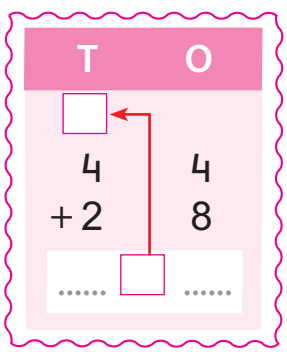
24 + 68 = ...



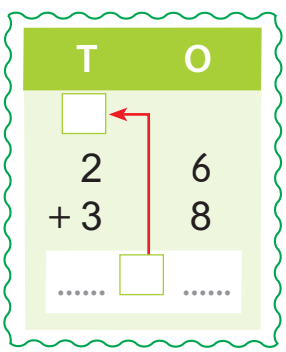
64 + 29 = ...



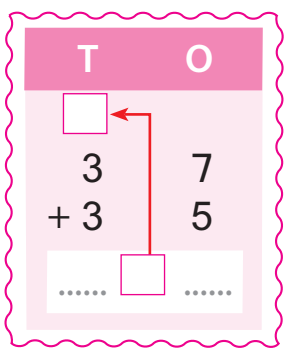
78 + 14 = ...



44 + 28 = ...



26 + 38 = ...



37 + 35 = ...

Add 47 and 36

	T	O
	1	
	4	7
+	3	6
		3

Add ones: 7 + 6 = 13

13 = 1 ten + 3 ones

	T	O
	1	
	4	7
+	3	6
	8	3

Add tens: 1 + 4 + 3 = 8

Hence : 47 + 36 = 83

Add and check the answer from the given key:

54 + 28	89 + 8	27 + 57	19 + 64	86 + 9
36 + 44	28 + 37	27 + 54	18 + 49	29 + 65
48 + 22	24 + 66	12 + 79	54 + 9	26 + 47
48 + 39	27 + 35	14 + 58	46 + 7	78 + 14
37 + 15	57 + 28	27 + 9	18 + 28	45 + 29

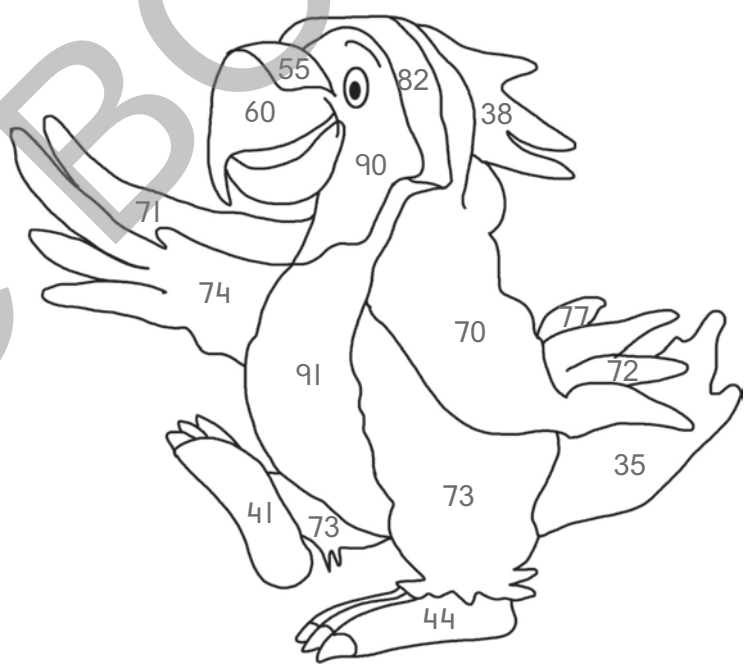
Key:

92, 67, 80, 36, 62, 84, 95, 53, 74, 52, 70, 82, 85, 90, 65, 72, 83, 81, 73, 94, 87, 97, 63, 91, 46

Add and find the answers on the parrot. Colour it as per the given key:

35 + 25	29 + 12	36 + 34	49 + 33	52 + 38
18 + 26	59 + 15	29 + 26	19 + 16	45 + 46
66 + 7	29 + 9	28 + 44	38 + 39	26 + 45

30 to 39	Blue
40 to 49	Orange
50 to 59	Brown
60 to 69	Yellow
70 to 79	Red
80 to 89	Purple
90 to 99	Green

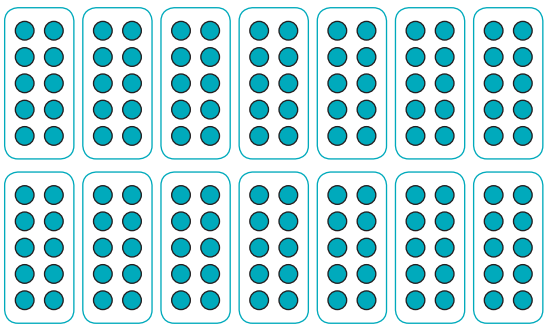


CHALLENGE

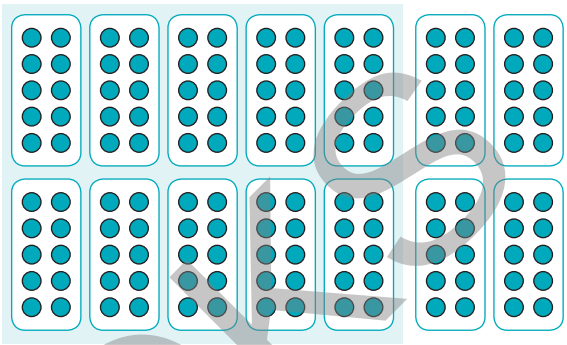
Can you write 59 as a sum of 2 numbers in more than one way?

1. 59 = 50 + 9
2. 59 = 38 + ...
3. 59 = ... + 19
4. 59 = ... + ...
5. 59 = ... + ...
6. 59 = ... + ...

Regrouping of Numbers (Tens to Hundreds)



can be regrouped as



14 tens

10 tens 4 tens

14 tens = 10 tens + 4 tens
= 1 hundred + 4 tens

Add 56 and 79

	1	
	5	6
+	7	9
		5

	1		
	5	6	
+	7	9	
1	3	5	

Add **ones**: 6 + 9 = 15
15 = 1 ten + 5 ones

Add **tens**: 1 + 5 + 7 = 13
13 tens = 1 hundred + 3 tens

∴ 56 + 79 = 135

Add correctly to get the fruit:

38	76	75	70	97	56
+ 79	+ 93	+ 68	+ 93	+ 84	+ 66

Mr. Deepak has a stationery store. Read the stories and find the answers.

58 Maths books were sold on Monday and 36 on Tuesday. How many books were sold in two days?

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

A school ordered for 32 English books and 49 Hindi books. For how many total books was the order made?

Mr. Deepak bought 96 pencils and 84 sharpeners. How many total things did he buy?

Reena bought three books containing 42, 56 and 48 pages. How many pages are there in all the books?

Anil buys two copies, one contains 48 pages and the other 38 pages. How many pages are there in two copies?

One day 48 males and 45 females visited the shop. How many customers visited the shop on that day?

3. Subtraction

Subtraction Practice 2-Digit Numbers

Subtract:

3 tens – 1 ten = 2 tens

4 tens – 3 tens = ____ ten

6 tens – 2 tens = ____ tens

Subtract:

40	70	90	40
– 20	– 10	– 50	– 30

Subtract 42 from 73:

73 → 7 tens 3 ones

– 42 → 4 tens 2 ones

31 ← 3 tens 1 one

Subtract:

58 → ____ tens ____ ones

– 24 → ____ tens ____ ones

____ ← ____ tens ____ ones

85 → ____ tens ____ ones

– 33 → ____ tens ____ ones

____ ← ____ tens ____ ones

Subtraction of 3-Digit Numbers (without Borrowing)

Solve: 638 – 426

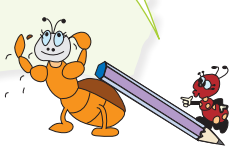
638 = 6 hundreds 3 tens 8 ones

– 426 = 4 hundreds 2 tens 6 ones

2 hundreds 1 ten 2 ones = 212

∴ 638 – 426 = 212

Subtracting hundreds from hundreds, tens from tens and ones from ones



Solve:

739 – 216

739 = ____ hundreds ____ tens ____ ones

– 216 = ____ hundreds ____ ten ____ ones

____ hundreds ____ tens ____ ones = ____

∴ 739 – 216 = ____

876 – 431

876 = ____ hundreds ____ tens ____ ones

– 431 = ____ hundreds ____ tens ____ one

____ hundreds ____ tens ____ ones = ____

∴ 876 – 431 = ____

Solve: 417 – 213

H	T	O
4	1	7
– 2	1	3
		4

Subtracting **ones**

7 – 3 = 4

H	T	O
4	1	7
– 2	1	3
	0	4

Subtracting **tens**

1 – 1 = 0

H	T	O
4	1	7
– 2	1	3
2	0	4

Subtracting **hundreds**

4 – 2 = 2

∴ 417 – 213 = 204

Subtract:

H	T	O
7	8	3
– 4	2	1

783 – 421 = ...

H	T	O
6	7	4
– 1	2	3

674 – 123 = ...

H	T	O
8	3	9
–	2	4

839 – 24 = ...

H	T	O
9	6	5
–	4	5

965 – 45 = ...

H	T	O
8	3	7
– 2	1	5

837 – 215 = ...

H	T	O
9	4	0
– 2	2	0

940 – 220 = ...

H	T	O
5	1	8
– 3	0	6

518 – 306 = ...

FUN TIME

Which animal can sleep standing?

Do you know which animal can sleep standing? To find the answer, subtract the following sums. Each answer has a letter.

Match your answers with the ones given at the bottom of the page. Write the corresponding letter in the space provided.

739 − 427	847 − 345	678 − 512	759 − 622
O	T	H	G
677 − 133	878 − 254	846 − 132	478 − 231
D	E	I	C
849 − 504	426 − 123	328 − 223	709 − 305
S	A	R	L

166 312 105 345 624

Subtraction Stories (without borrowing)

There are 586 students in a school.
320 of them are girls.
How many are boys?

```
  586
– 320
  266
```

A man earned ₹ 925 in February.
He spent ₹ 615 during that month.
How much money did he save?

There are 976 soldiers in a fort.
532 soldiers went out the fort.
How many soldiers were left in the fort?

A cinema hall has 840 seats.
One day only 730 persons saw the movie.
How many seats were vacant?

A fruitseller had 789 apples.
Out of them, 38 were found rotten.
How many were good ones?

Rajesh bought 538 newspapers.
526 were sold out.
How many were left?

There are 258 students in a school.
37 students were absent on Monday.
How many were present?

Sum and Difference

Find the sums: Across →

1. 311 + 234 = 545

4. 200 + 214 =

7. 262 + 113 =

8. 271 + 325 =

9. 232 + 112 =

10. 117 + 172 =

11. 121 + 413 =

14. 203 + 221 =

17. 211 + 125 =

18. 112 + 230 =

19. 201 + 134 =

20. 310 + 150 =

1 5	2 4	3 5		4	5	6
7 3				8		
9 3				10		
11	12	13		14	15	16
17				18		
19				20		

Check your answers with the following problems:

Find the differences: Down ↓

1. 675 − 142 = 533

2. 896 − 422 =

3. 984 − 430 =

4. 769 − 317 =

5. 699 − 501 =

6. 999 − 530 =

11. 847 − 314 =

12. 876 − 543 =

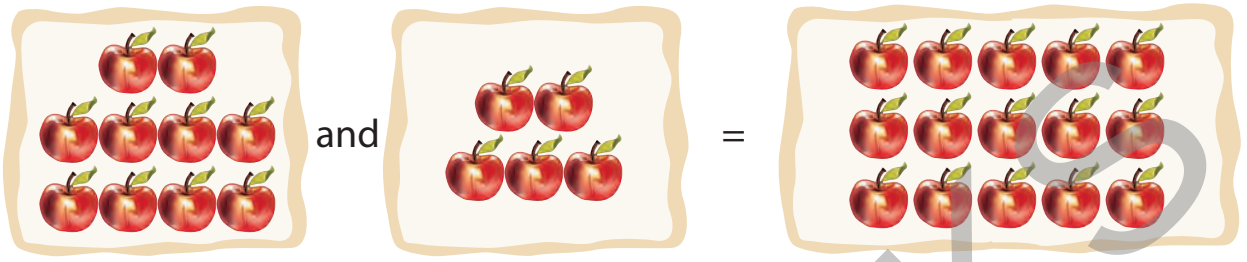
13. 689 − 224 =

14. 759 − 325 =

15. 659 − 413 =

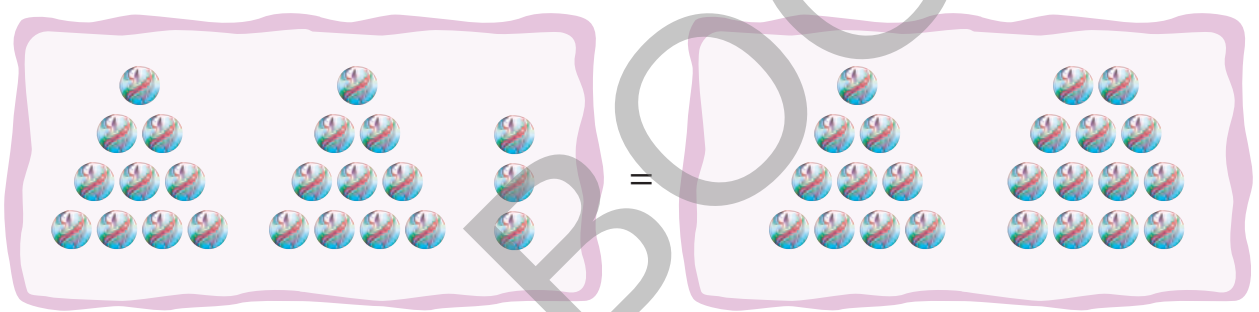
16. 598 − 178 =

Regrouping of Numbers (Tens to Ones)



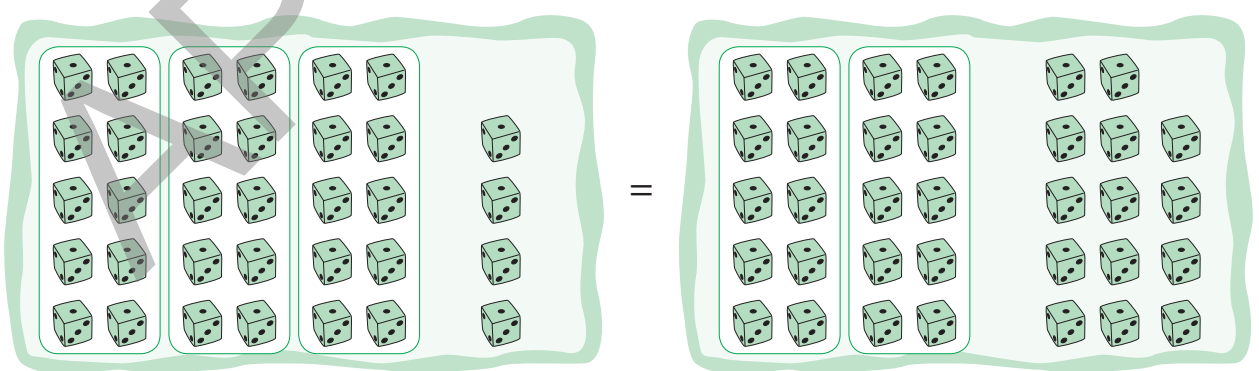
1 ten 5 ones 15 ones

1 **ten** + 5 **ones** = 10 ones + 5 ones = 15 **ones**

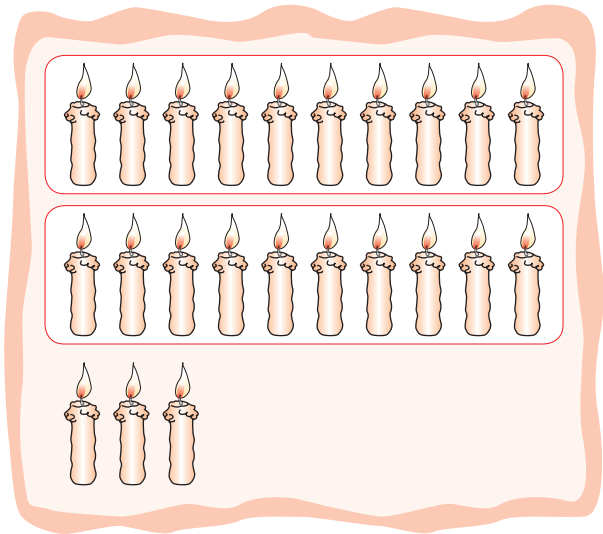


2 tens + 3 ones 1 ten 13 ones

2 **tens** + 3 **ones** = 1 **ten** + 13 **ones**



3 **tens** + 4 **ones** = ____ **tens** + ____ **ones**



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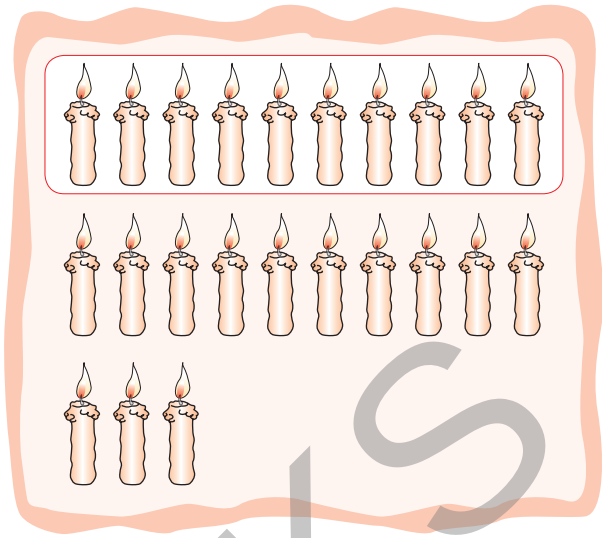
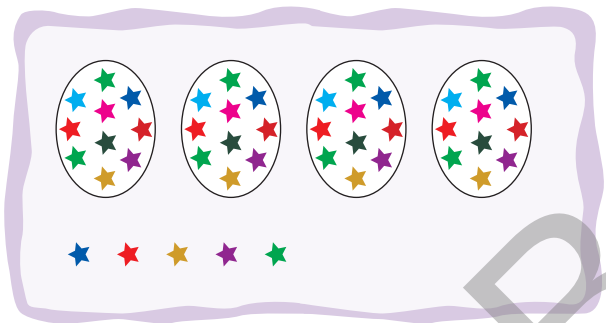


2 tens + ones = ten + ones



=

tens + ones = tens + ones

Fill in the placeholders:

1 ten + 7 ones = ones

3 tens + 5 ones = tens + 15 ones

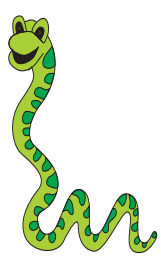
2 tens + 6 ones = ten + 16 ones

7 tens + 9 ones = 6 tens + ones

6 tens + 3 ones = 5 tens + ones

9 tens = 8 tens + ones

7 tens + 5 ones = tens + 15 ones



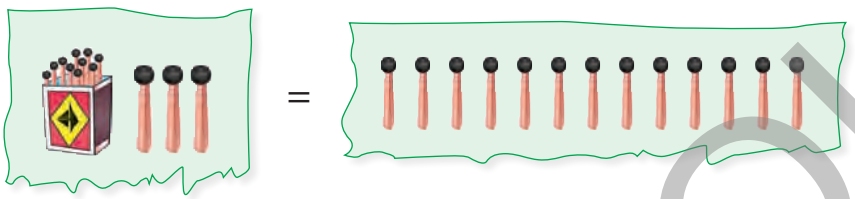
Subtraction (with Regrouping)
2-digit numbers

Subtract 6 from 13

We cannot subtract 6 ones from 3 ones.

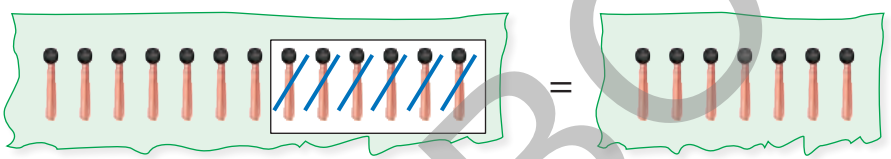
We break 1 ten into ones and get 10 ones.

Now we have 10 ones and 3 ones or 13 ones.



1 ten and 3 ones = 13 ones

Now subtracting 6 ones from 13 ones, we get 7 ones.



13 ones = 7 ones

Hence 13 – 6 = 7

Subtract 7 from 32

32 – 7 = 3 tens and 2 ones – 7 ones
= 2 tens and 12 ones – 7 ones
= 2 tens and 5 ones
= 25

Subtract by filling in the placeholders:

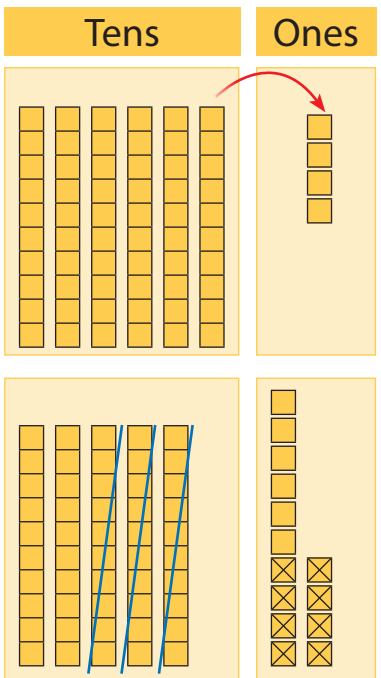
15 – 7 = 1 ten and ☐ ones – 7 ones
= ☐ ones – 7 ones
= ☐ ones

∴ 15 – 7 = ☐

Column Subtraction

Subtract 38 from 64

64 – 38 =



We cannot subtract 8 ones from 4 ones, as 8 > 4.

Borrow 1 ten from 6 tens making 14 ones.

Now subtract,
8 ones from 14 ones and 3 tens from 5 tens,
we get 6 ones and 2 tens, making it 26.

∴ 64 – 38 = 26

In practice, we do it like this

	T	O
	5	14
	~~6~~	~~4~~
–	3	8
	2	6

Subtracting ones from ones and tens from tens

Subtract:

T	O
8	5
– 4	7

T	O
9	4
– 4	8

T	O
8	3
– 3	9

T	O
6	5
– 4	8

T	O
3	4
– 1	8

T	O
7	3
– 5	7

T	O
6	4
– 3	9

T	O
5	3
– 2	6

T	O
7	8
– 5	9

T	O
7	3
– 2	9

Subtract 17 from 42

T	O
4	2
– 1	7

Start with the ones.
2 – 7 cannot be done.
We must borrow.

T	O
~~4~~ 3	~~2~~ 12
– 1	7

Take 1 ten from the tens.
10 + 2 = 12 in the ones.
4 – 1 = 3 in the tens.

T	O
~~4~~ 3	~~2~~ 12
– 1	7
2	5

Now subtract.
First ones.
Then tens.

Hence 42 – 17 = 25

In practice, we set it as:

~~4~~ 3	~~2~~ 12
– 1	7
2	5

Subtract:

5 3 – 2 6	8 7 – 4 8	7 2 – 2 5	6 2 – 2 8	5 2 – 3 7
9 1 – 4 3	6 5 – 3 9	8 0 – 5 6	5 6 – 2 9	4 0 – 2 6
7 3 – 1 8	4 4 – 2 7		8 1 – 4 6	3 8 – 1 9
5 2 – 2 9	4 3 – 3 9	9 2 – 7 8	9 0 – 6 3	3 2 – 1 6

FUN TIME

Pet Shop Puzzle (Addition and Subtraction)

Mr. Victor has many pets in his store. He has to find homes for some of them. Read the stories and find the answers.

1. There are 75 puppies in his store. He found homes for 39 of them. How many puppies are still in his store?

$$\begin{array}{r} 7\ 5 \\ -\ 3\ 9 \\ \hline \end{array}$$

2. It took him all day to count his parrots. They were 91. People bought 36 of them. How many parrots does he have now?

3. There were 62 fish in the store in the morning. He counted only 39 fish in the evening. How many were sold out?

4. There are 70 tortoises loose in the store. He found 41 of them. How many tortoises are still hiding?

5. He found homes for 34 kittens. Now he is left with 48 kittens. How many kittens were there?

6. He counted 29 rabbits in the evening. He could sell only 29. How many rabbits were with him in the morning?

Checking Subtraction by Addition

When the difference of two numbers is added to smaller number, we get the greater number.

T	O
6	5
– 4	3
2	2

T	O
2	2
+ 4	3
6	5

Hence 22 is the correct answer.

Find the difference and check your answer by addition:

T	O
4	4
– 2	1

Check

T	O

T	O
3	9
– 1	2

Check

T	O

Check

T	O
6	8
– 3	9

Check

T	O

T	O
3	9
– 2	9

Check

T	O

Check

T	O
4	2
– 2	7

Check

T	O

T	O
5	0
– 1	9

Check

T	O

Checking Subtraction by Subtraction

When the difference of two numbers is subtracted from the greater number, we get the smaller number.

T	O
9	6
– 3	4
6	2

T	O
9	6
– 6	2
3	4

Hence 62 is the correct answer.

Find the difference and check your answer by subtraction:

Check

T	O
9	9
– 6	5

T	O

Check

T	O
7	8
– 4	3

T	O

Check

T	O
9	0
– 6	3

T	O

Check

T	O
4	6
–	9

T	O

Check

T	O
5	1
– 2	6

T	O

Check

T	O
9	1
– 2	5

T	O

ACTIVITY WORKSHEET 5

(Subtraction)

Subtract and encircle the answers in the grid. The answers can be found horizontally and vertically. One is done for you.

325 − 213 = 112	478 − 305 =	936 − 712 =
675 − 132 =	837 − 414 =	729 − 217 =
940 − 300 =	789 − 465 =	975 − 453 =
72 − 38 =	83 − 49 =	64 − 28 =
805 − 703 =	90 − 44 =	938 − 535 =
68 − 49 =	73 − 45 =	91 − 56 =
90 − 18 =		

1	5	1	2	5	6	1
0	4	2	3	2	4	9
2	3	1	4	2	0	2
4	6	1	7	3	4	8
7	2	2	4	0	3	5

life skills

In a forest, there were 475 trees out of which 253 were cut down by a timber merchant.

(a) How many trees are left?

(b) Should we cut down trees?