

About the book

21/E SKIWI

Vedic Math influenced math learning and activities. More than 1700% times faster than regular Math. It enhances in sharpening the mind, increases mental agility and intelligence. Increases speed and accuracy. It improves memory and boosts selfconfidence. It helps in developing the left and right sides of the of the SAMPLE brain. Easy to master and apply.

LE SAMI

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Smallest number

Explanation: A set of numbers are given, circle the smallest number in 8 6 AMPLE SAMPLE The smallest number of the given set is 2, circle 2.

7 2 8 9

Exercise 8

Circle the smallest number

1) 6 9 3 7

SK

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- ST
 - SAMPLE

10-point circle

Explanation:The below diagram represents pairs of numbers which add to give 10.

K SAMIR

$$1 + 9 = 10$$

$$2 + 8 = 10$$

$$3 + 7 = 10$$

$$4 + 6 = 10$$

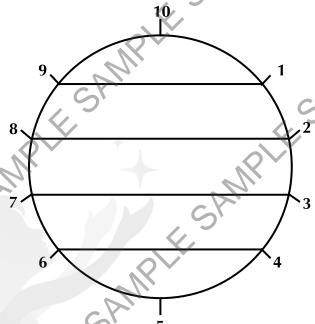
$$5 + 5 = 10$$

$$6 + 4 = 10$$

$$7 + 3 = 10$$

$$8 + 2 = 10$$

$$9 + 1 = 10$$



We can use our fingers to get pair of a number. For example to find pair of 2, open 10 fingers and fold 2 finger, count the remaining fingers, it gives 8, which is a pair of 2.

Exercise 18

Addition using 10-point circle

$$4) \quad 5 \quad + \quad \boxed{} = 10$$



Put appropriate sign

Explanation: Put + or – in the box by observing the numbers.

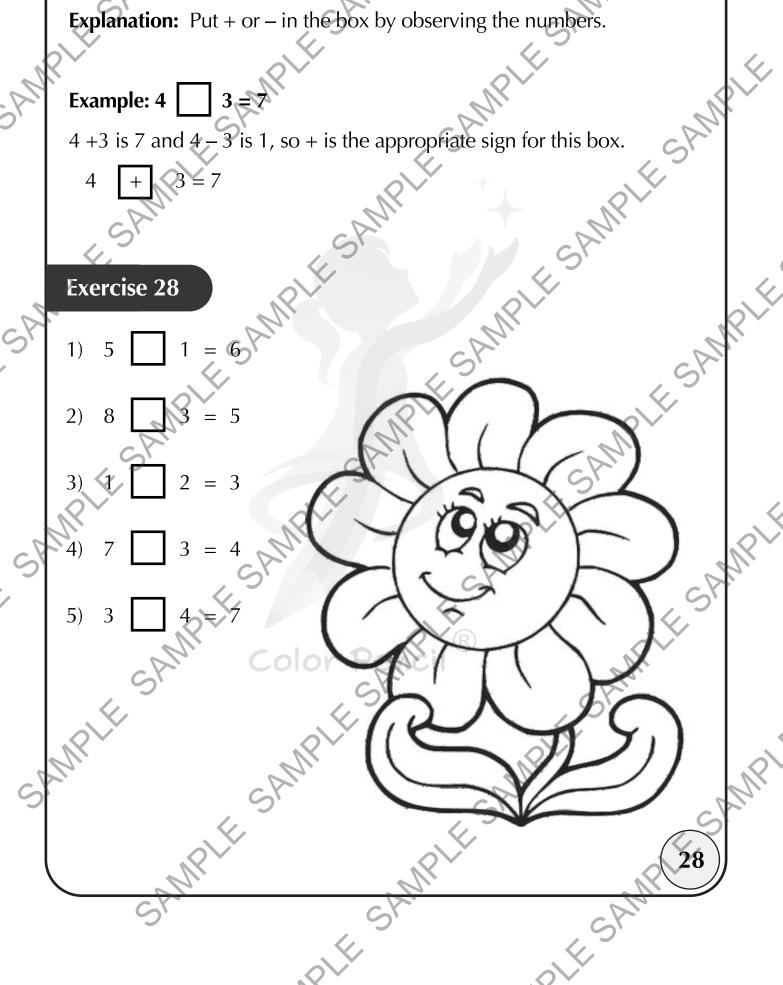
Example: 4 3 = 7

4 + 3 is 7 and 4 - 3 is 1, so + is the appropriate sign for this box.

Exercise 28

SAN

- 1)
- 2)



K SAMIR Greater than, less than or equal to

E SHIM

Explanation: Two numbers are given. If the number on the left side is greater than the number on the right side, fill the box with > symbol. If the number on the left side is smaller than the number on the right side, fill the box with < symbol. If the numbers are same, fill the box with = symbol.

Example: 12 17

Number on the left side is 12 and right side is 17. 12 is smaller than 17, so put < symbol in the given box.

12

SP

Exercise 7

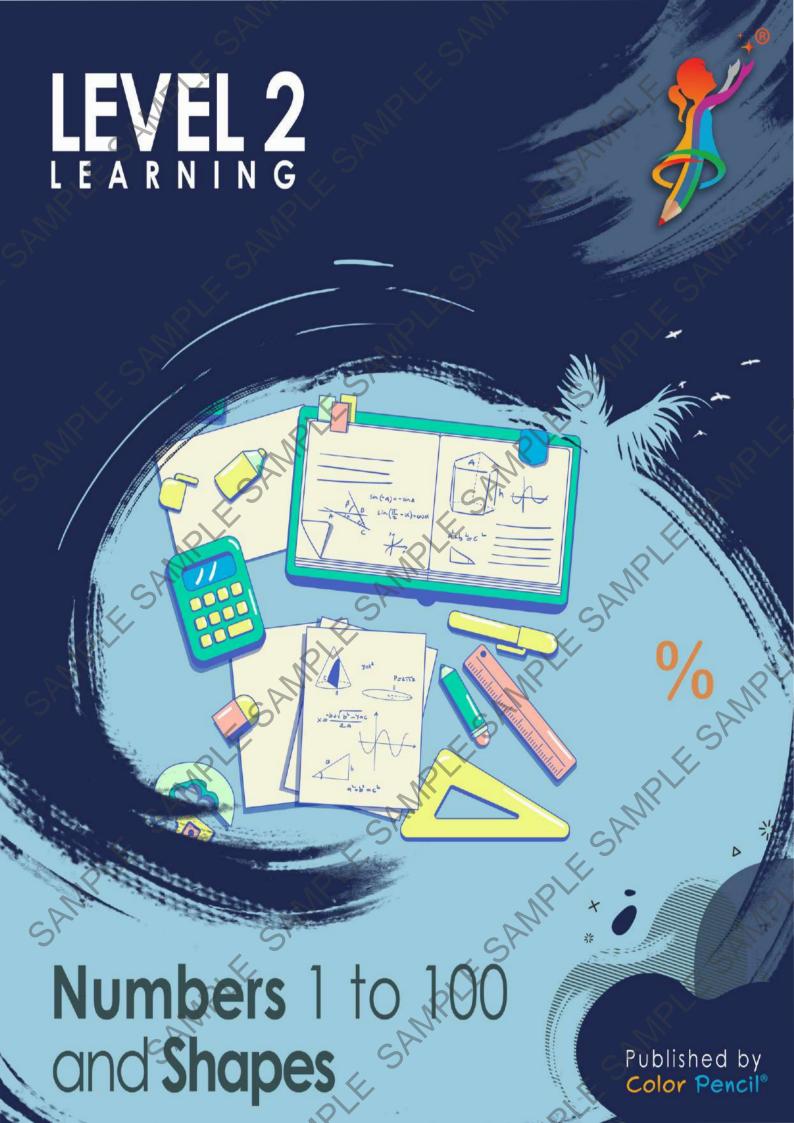
Put \leq , \geq , or = in the box.

- 18
- 2) 13
- 3) 10
- 16 12
- 15



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Ascending order

THE SAMPLE SAMPLE SAMPLE SAMPLE **Explanation:** Set of numbers are given, write from smaller number to .ial bigger number in the given boxes.

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Example

24	19	46	33
19.	24	33	46

K SHIM

Exercise 8

Write in ascending order

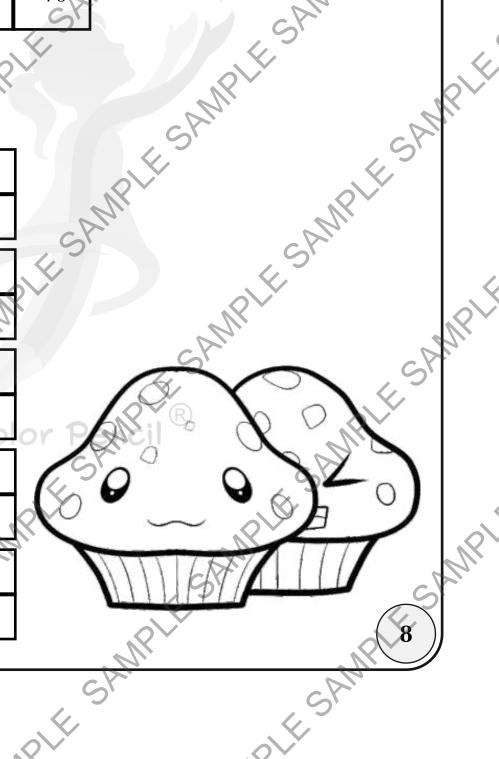
1)	26	15	32	19
	C	N.		

2)	45	28	9	26
11.				12

3)	44	33	11	22	

4)	15	23	46	14

5)	27	15	49	C 35



E SHIM K SAMI Even numbers between 1 and 50 **Explanation:** Even numbers are numbers end with 0, 2, 4, 6, and 8. E SAMPLE SAMPLE SAMPLE Write even numbers between 1 and 50. SANK ARILE SAMPLE SAMPLE JE SPAIRIL SAMPLE SAMPLE SAMPLE SAMP 18 SP SP

SPA

Smallest number

Explanation: A set of numbers are given, circle the smallest number in The smallest number of the given set is 42 and circle number 42.

57 (42) 68 79

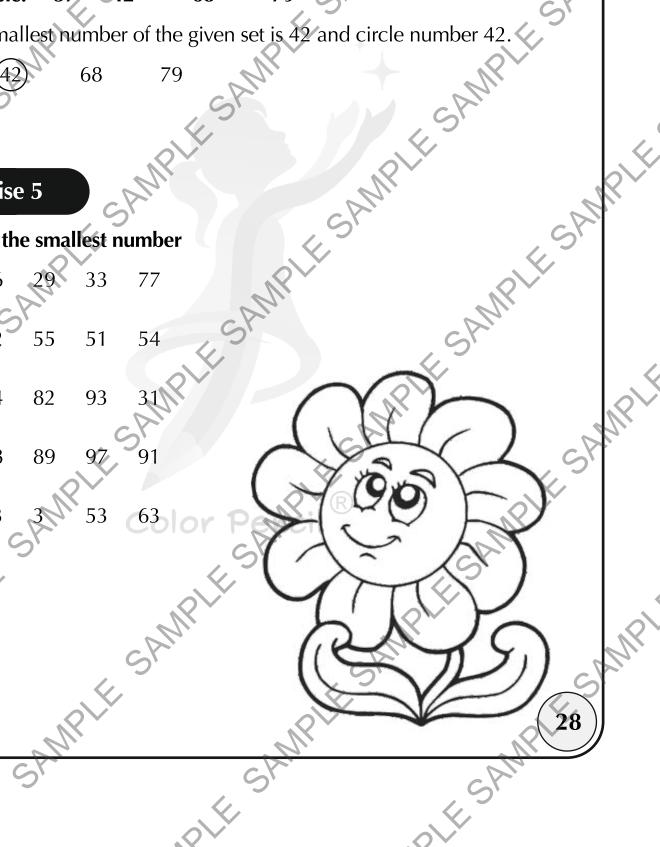
Exercise 5

Circle the smallest number 79 SAMPLE the given set.

SAM



- 56 1) 33
- 55 51
- 93 82
- 97 91 89 88



Subtract from base numbers

K SHIM

Explanation: We can use backward counting to get the answer. Another method is, less 1 in tens place and write with pair of the subtrahend in E SAMP units place.

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Example: 70 – 8

7 - 1 = 6 in tens place and pair of 8 is 2 in units place, the answer is 62.

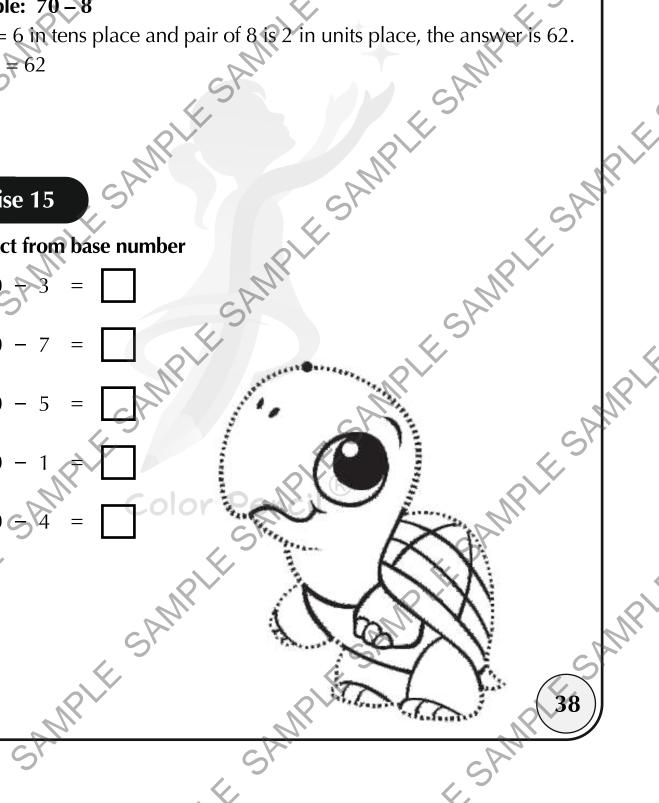
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SAMPI **Exercise 15**

Subtract from base number

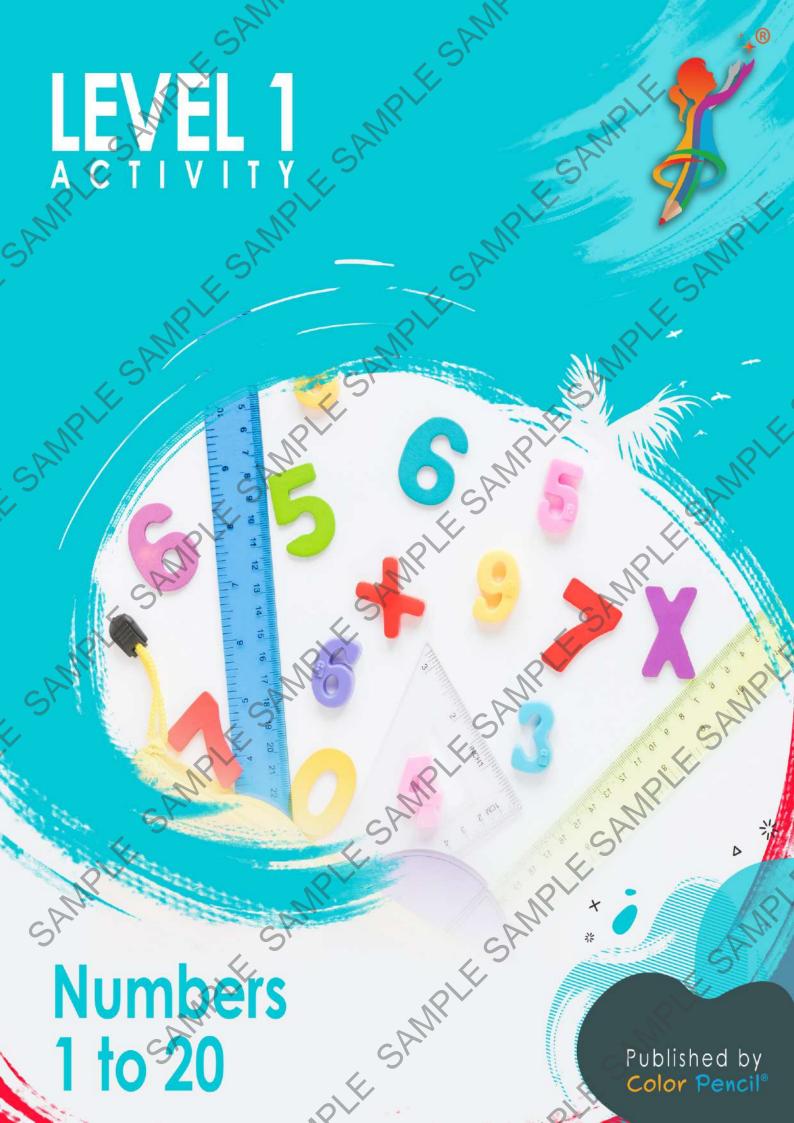
$$2) 50 - 7 =$$

$$3) 80 - 5 =$$





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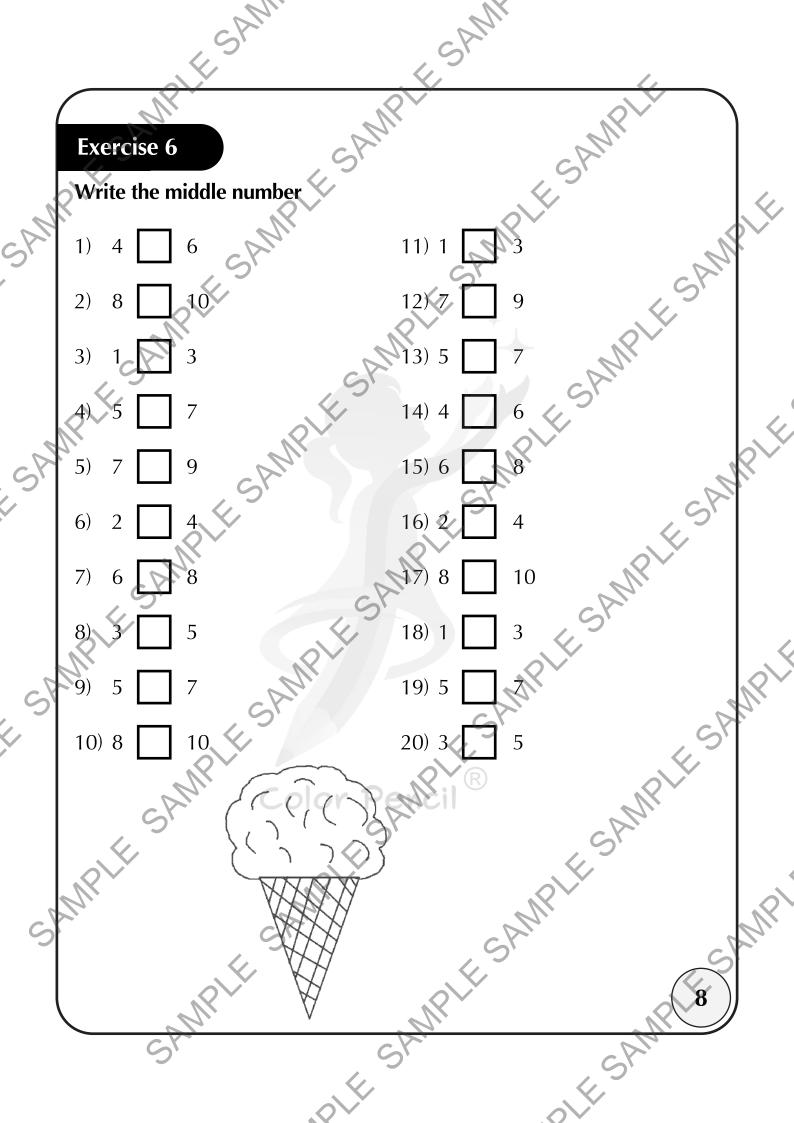
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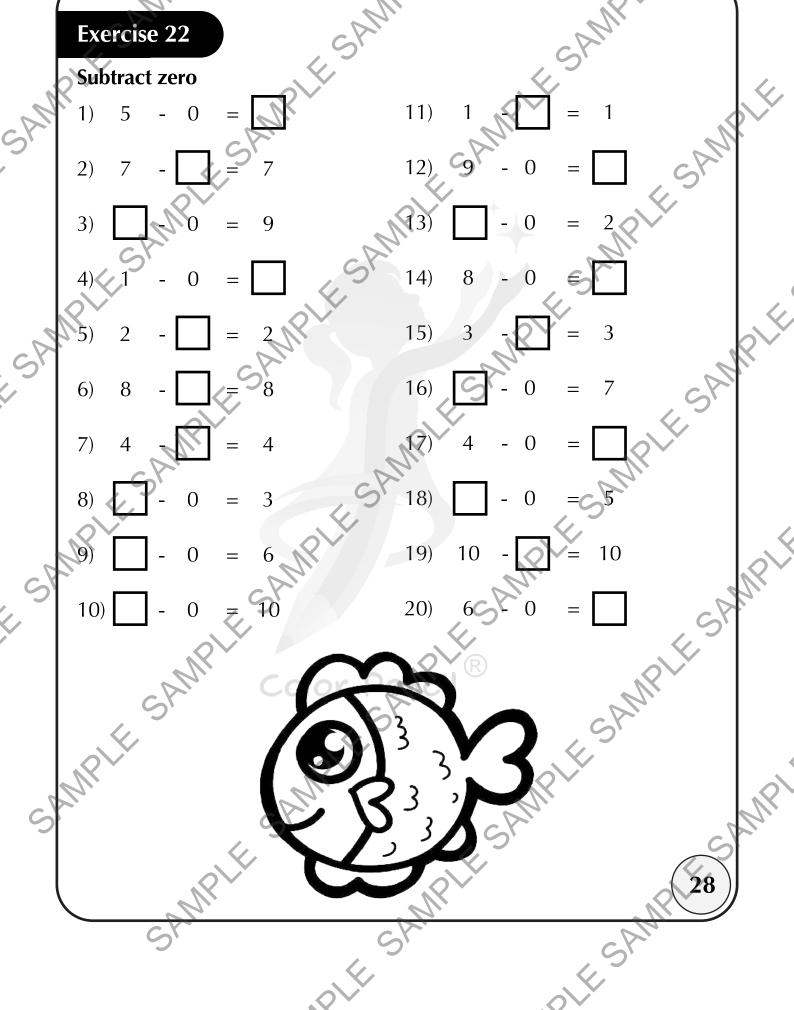
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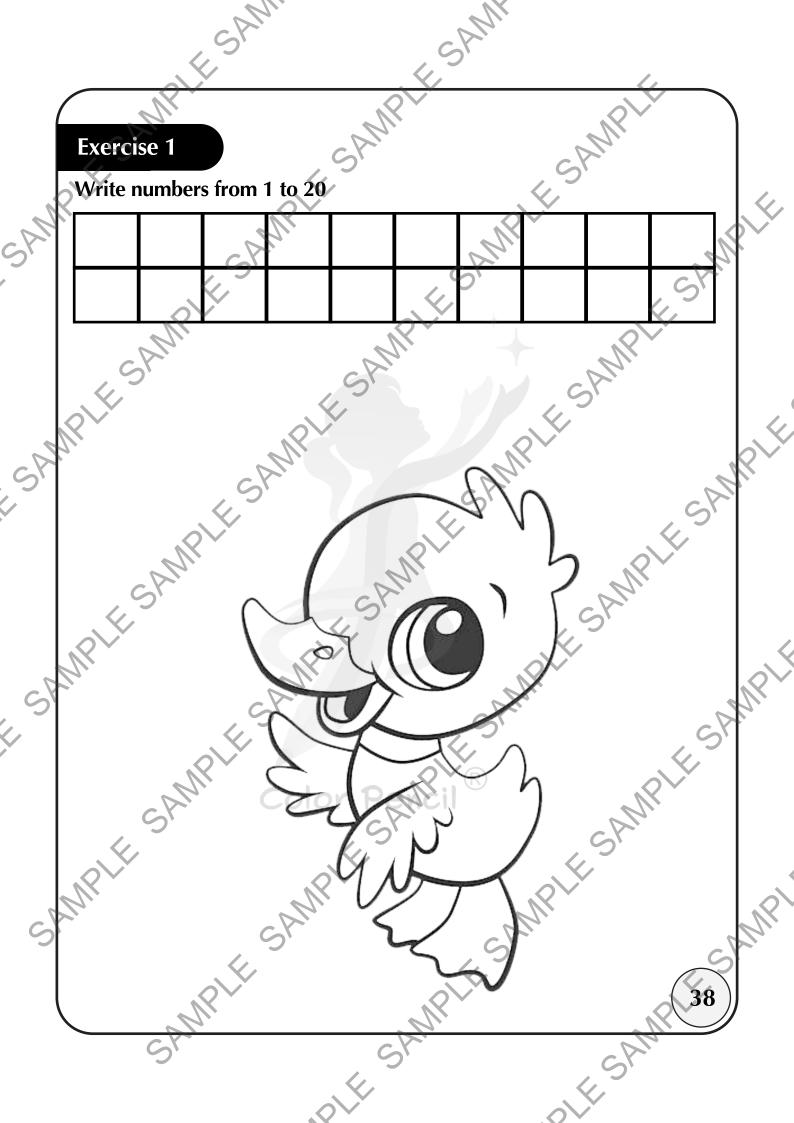
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SP

- $0 = \mathbb{R}^{|\mathcal{A}|}$ $7 \mathbb{R}^{|\mathcal{A}|} = 7$ $-\mathbb{R}^{|\mathcal{A}|}$







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Exercise 8

Write in ascending order

SAM

1//	20	13	32	19
			7.	W

SA

7) 42 28 31 2	7

8)	36	12 9	44

9)	9	18	32	26

SANK SANK

CIL SAMP

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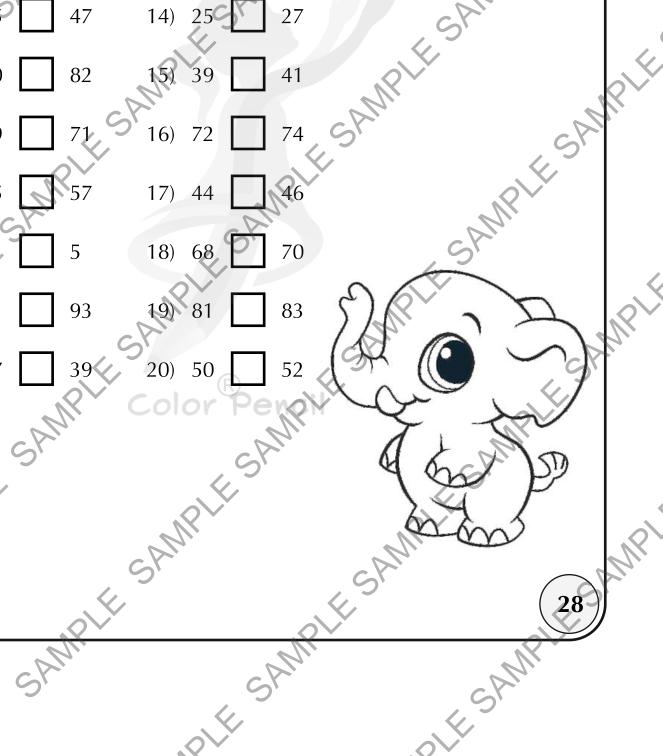
LE SAMPLY

Write odd numbers between 1 and 50. SAMPLESAMPLE SAMPLE SA SAN SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE 18 MIR SAMP!

- SAMPLESAMPLE
- 905 17
- 3)

SA

- 63
- 60 13) 58
- 47
- 14) 25
- 71 71 41
- 74 SAMPLE SAMPLE SAMPLE
- 55
- 17)
- 18) 68 70
- 39ESP
 - 19) 81 83

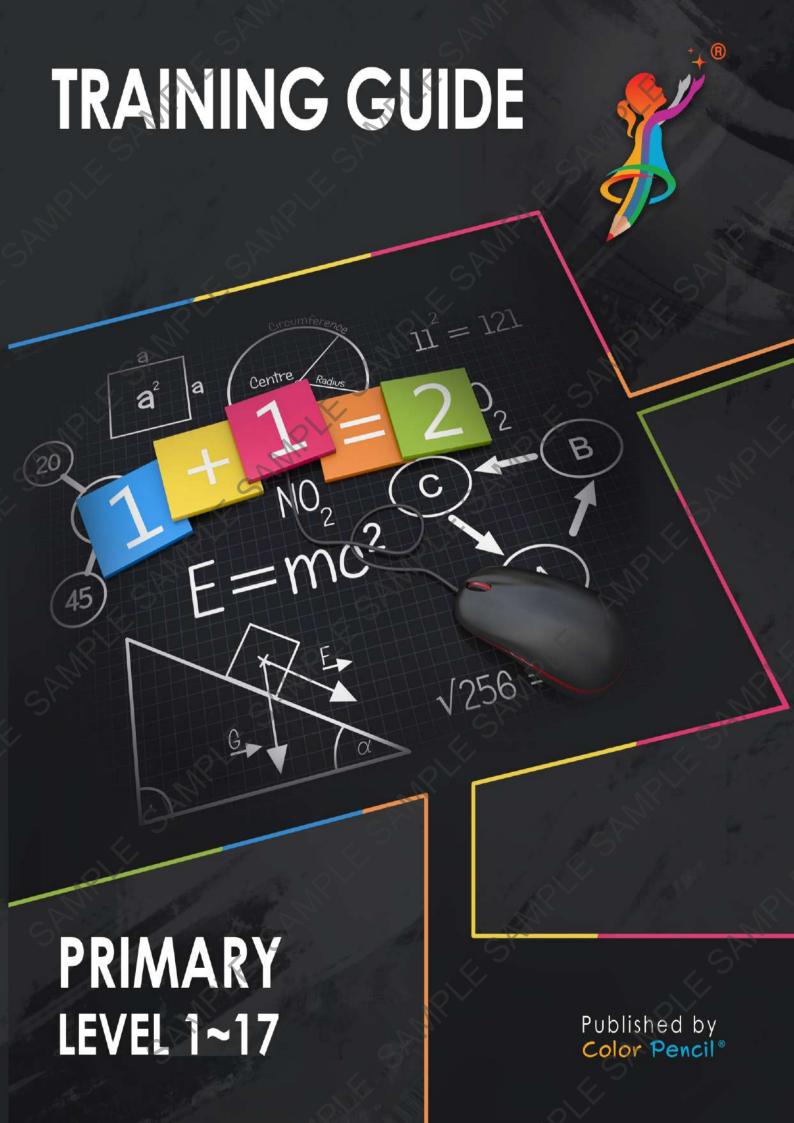


CIL SANTE

Write numbers from 100 to 1 SAMPLE SAMPLE SAN SPA Color PAMPILE SAMPLE SAMPLE SAMPLE AMPLE SAMPLE SAM SAMPLE SAMPLE







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E SAMI

Every concept in Math is under any one of the sutras. More than one sutra is applicable to some methods. In this book, some sutras are mentioned under some methods. It just shows how the sutras are related to concepts. It does not mean that the particular sutra is only applicable to that particular method.

NUMBERS

Sutra: "By one more than the one before"

Our number system is based on decimal number system. 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 are called digits. Combination of digits are called numbers. Formation of number is under sutra "By one more than the one before"

For example, 32, 33, 34, 35, and so on.

Number 33 is one more than the before number 32, 34 is one more than the before number 33 and so on.

Add units place 7 + 8 = 15 in which 1 is already added to tens place so the units place answer is 5.

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$$3817 + 2958 = 6775$$

LE SAIN

385 + 246

Hundreds sum 3 + 2 = 5, tens sum is more than 10 so hundreds sum is 5 + 1 = 6

Tens sum 8+4=12 in which 1 is already added to hundreds place, tens sum is 2 but units sum is more than 10, so tens sum becomes 2+1=3

Units sum 5 + 6 = 11 in which 1 is already added to tens place so units sum is 1.

$$385 + 246 = 631$$

Observe the sum of next digit and write the answer

Exercise 10

Add from left to right

$$1)46 + 23$$

$$2)73 + 58$$

$$3)88 + 44$$

$$5)585 + 375$$

$$6)482 + 129$$

$$8) 2857 + 4894$$

11) Sum of 9 in between

Sutra: "By addition"

Type: General

When we add two numbers from left to right, sometimes there is a sum of 9 in between. Every time before we write the answer, check the next place sum. If the sum is 9, don't write the previous place answer, keep the answer in mind, check the sum of next place. If it is less than 10, write the answers as it is. If it is 10 or more than 10, we should increase the answer in our mind by 1 and write the remaining digits in the next place.

5) Subtracting base numbers

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Sutra: "By mere observation"

Type: Special

Here the subtrahend is the base number. Split zeros of the subtrahend and split as many digits in the minuend. Subtract the remaining digits using backward counting or splitting and write the answer with split digit of the minuend.

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Examples:

4329 - 800

The subtrahend has two zeros and split it. Split last two digits of the minuend, do 43 – 8 using splitting which gives 35 and write it with 29.

$$43 \mid 29 - 8 \mid 00 = 43 - 8 \mid 29 = 3529$$

 $4329 - 800 = 3529$

Here the subtrahend has one zero, split it and split last digit of the minuend.

$$47 |1-2|0=47-2|1=451$$

 $471-20=451$

Observe the numbers and do mind calculation

Exercise 19

Subtract base number

1)
$$74 - 30$$

12) Subtract from unity base numbers

Sutra: "All from 9 and the last from 10"

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Type: Special

Unity base numbers are powers of 10, they are 10, 100, 1000, 10000 and so on. There is a special method to subtract any numbers from base numbers using the sutra "All from 9 and the last from 10". The method of subtraction from right to left from unity base number is given below. SAMPLESAM

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This is the method using the concept of borrowing or regrouping. Here we subtracted all the digits from 9 and the last digit from 10 which is in the sutra form in Vedic Math. To subtract any number from unity base number with number of zeros of the base number equal to number of digits in the subtrahend, we can use the sutra "All from 9 and the last from 10" which means subtract all digits from 9 and the last digit from 10. We can get the answer just by observation using this sutra.

Examples:

1000 - 328

Color Pallil Before using the sutra, check two conditions. First, minuend should be a base number. Next number of zeros of the minuend is equal to number of digits of the subtrahend. satisfied, so we can use the sutra "All from 9 and the last from 10".



LEVEL 4

LEVEL 8

Addition and Subtraction

LEVEL 5





LEVEL 9











