## LEVEL5

## Numbers 1 to 1000 Addition & Subtraction

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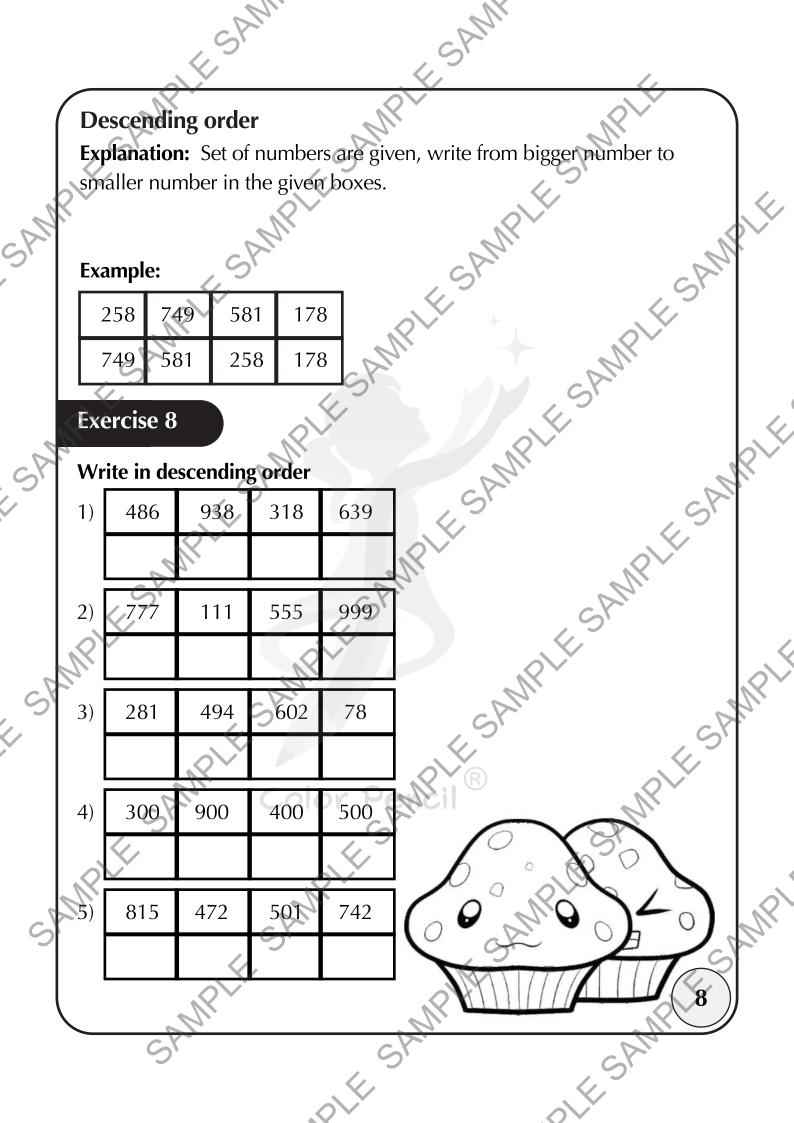
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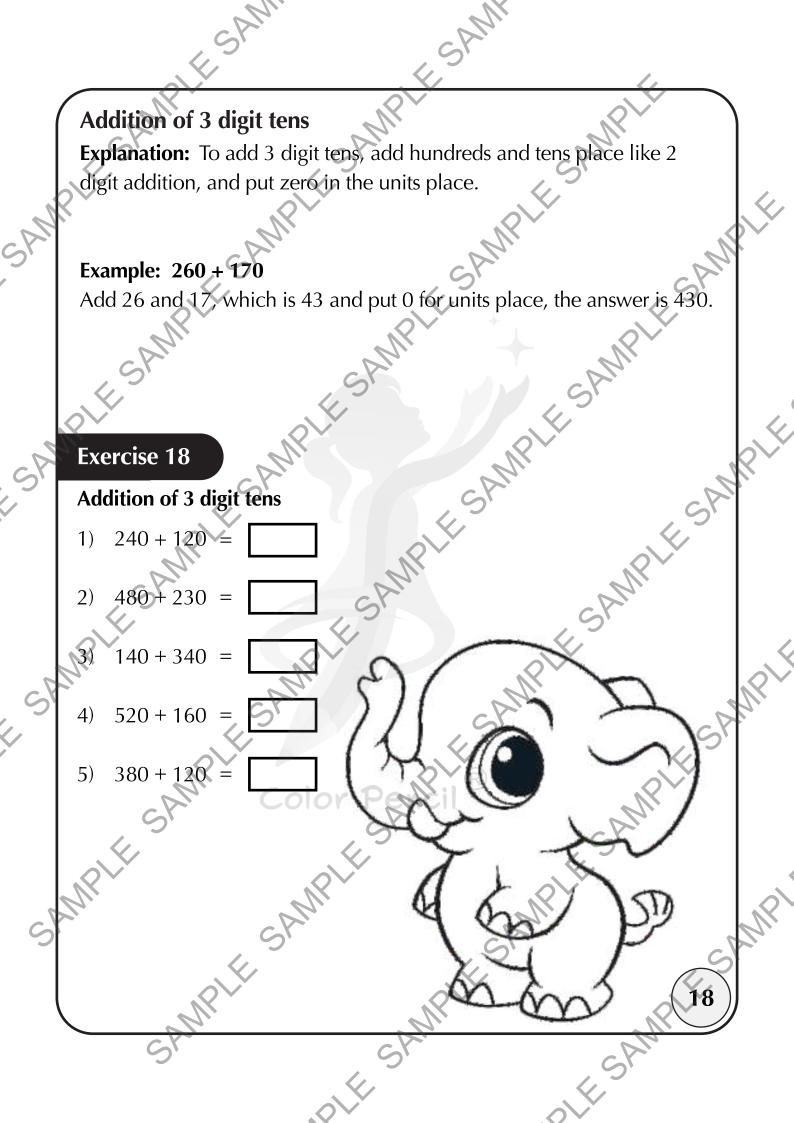
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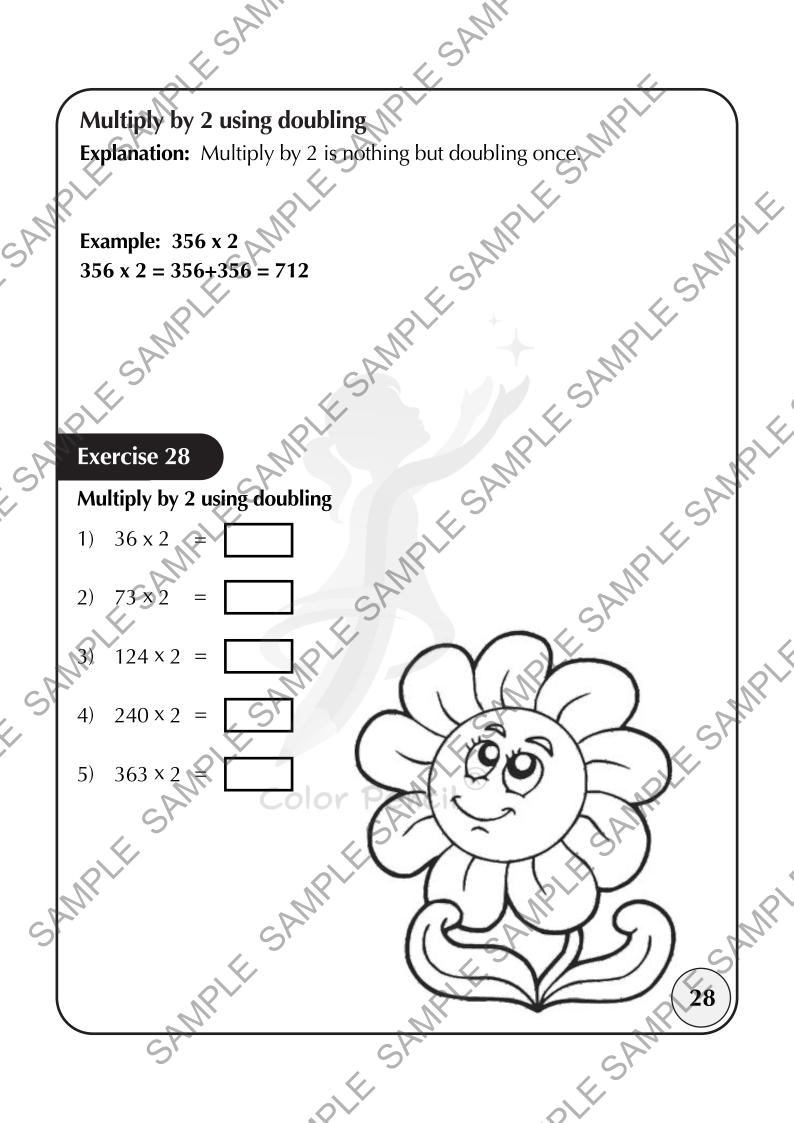
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#### Subtract single digit from 3 digit number

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Explanation: To subtract single digit from 3 digit number, put two imaginary 0s in front of the subtrahend and subtract like 3 digit subtraction or we can use splitting method.

Key word: Splitting in subtraction is to split the subtrahend into two numbers, so that one of the number must be equal to units of the 3-digit number.

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#### Example: 143 – 7

Units place of the subtrahend is greater than units place of the minuend, so use splitting method. Units place of the minuend is 3, so split 7 into 3 and 4. First subtract 3, 143-3 = 140 and then subtract 4, 140-4 = 136, which is the final answer.

#### 187 - 4

We can take this as 187 – 004, subtract hundreds, tens and units, the answer is 183 MPLE 187 - 4 = 183

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Exercise 38

148 – 5

131-3

186 – 4

114 - 3

142 – 8

1)

2)

4)

5)







# Numbers 1 to 1000 Multiply & Divide

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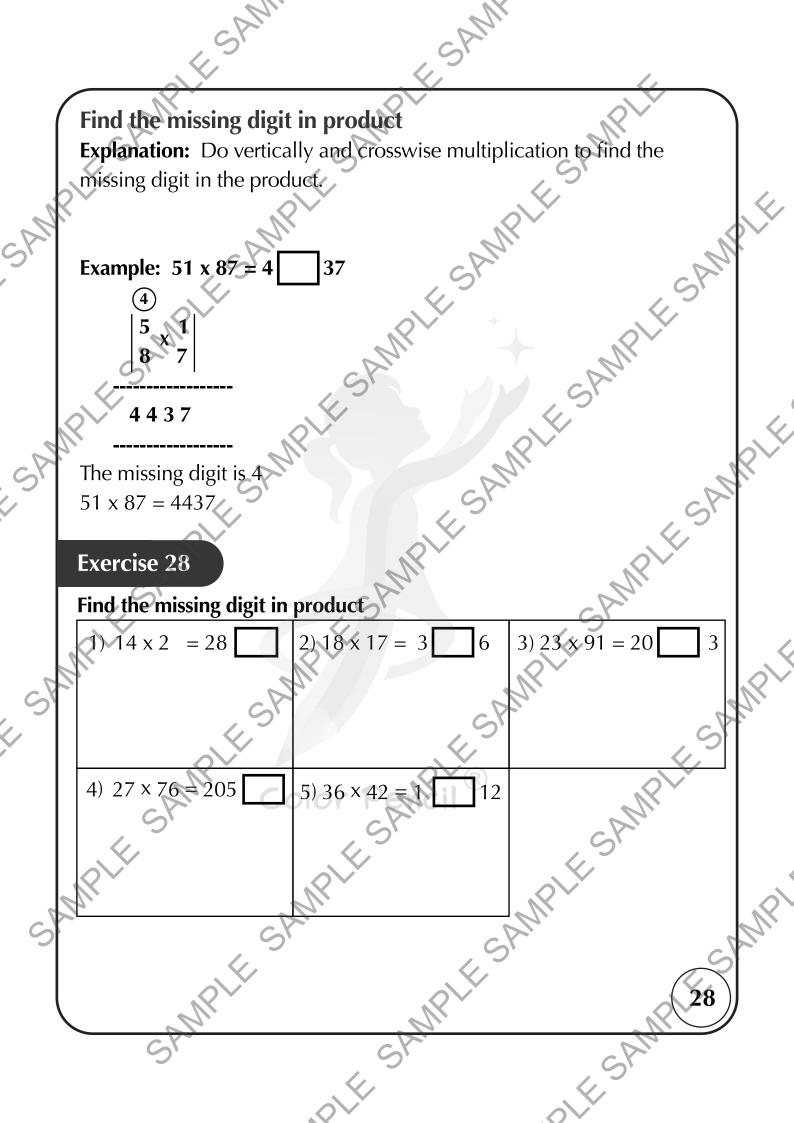
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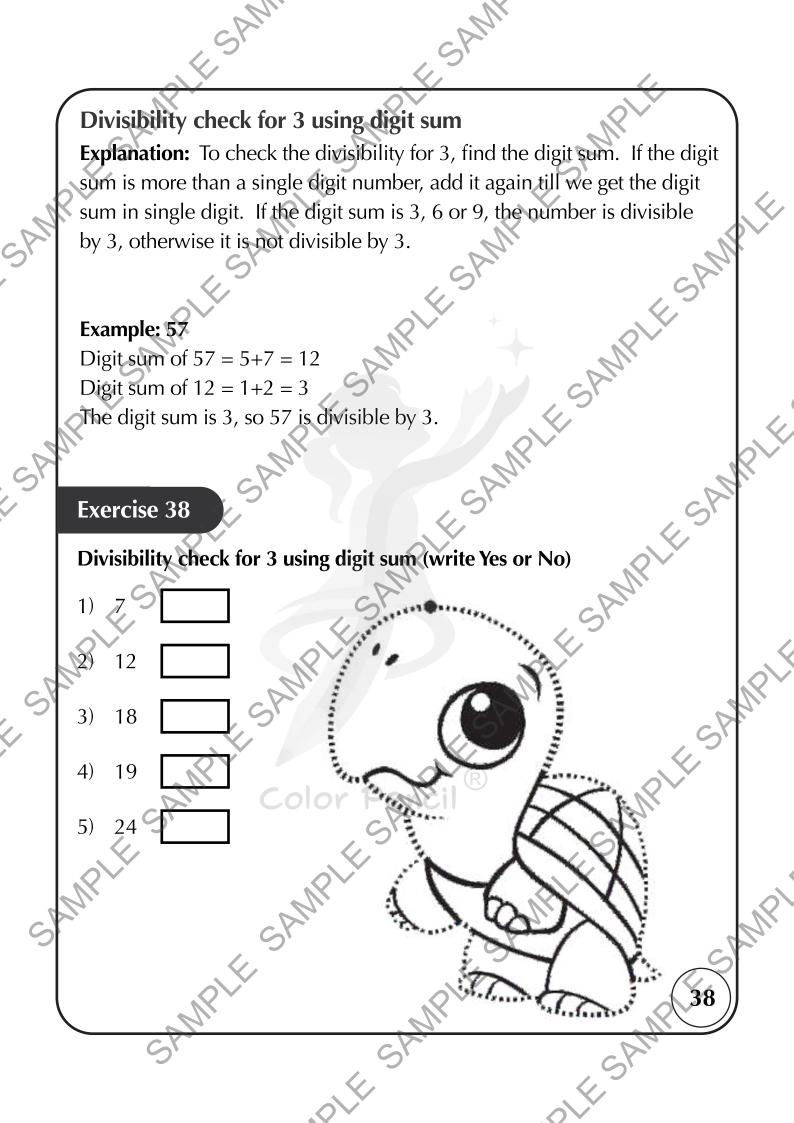
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#### FSAM FSAMI Single digit division with remainder **Explanation:** The first number is the dividend and the second number is FSAMPLE the divisor. Check how many times the divisor fit into the dividend that is called quotient and remaining number is called remainder. SA **Example:** 48 ÷ 5 $5 \times 9 = 45$ There are nine 5s in 48, with excess 3 which is called remainder. Single digit division with remainder 1) $13 \div 2 =$ AMPLESAMPLE SA 2) 3) $23 \div 4 =$ 4) 29 ÷ 5 HS. $35 \div 6 =$ AMPLESAMPL 5) 18 INIF-SI CIF SP









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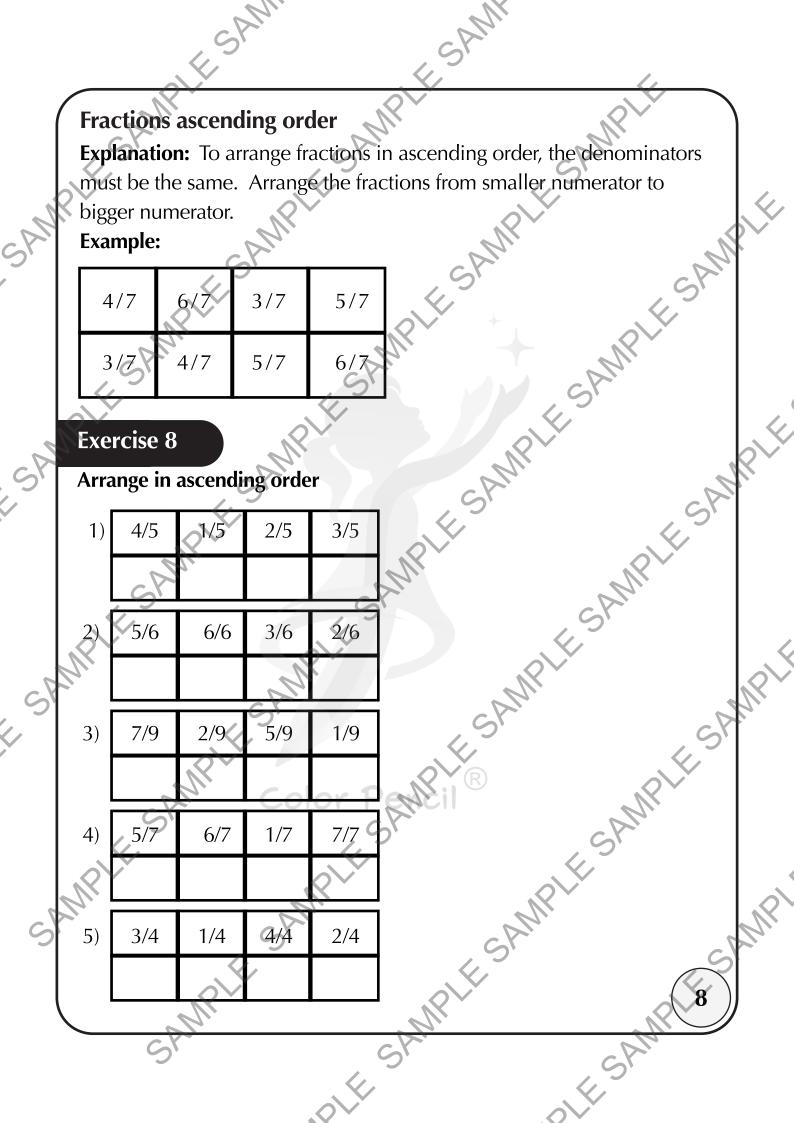
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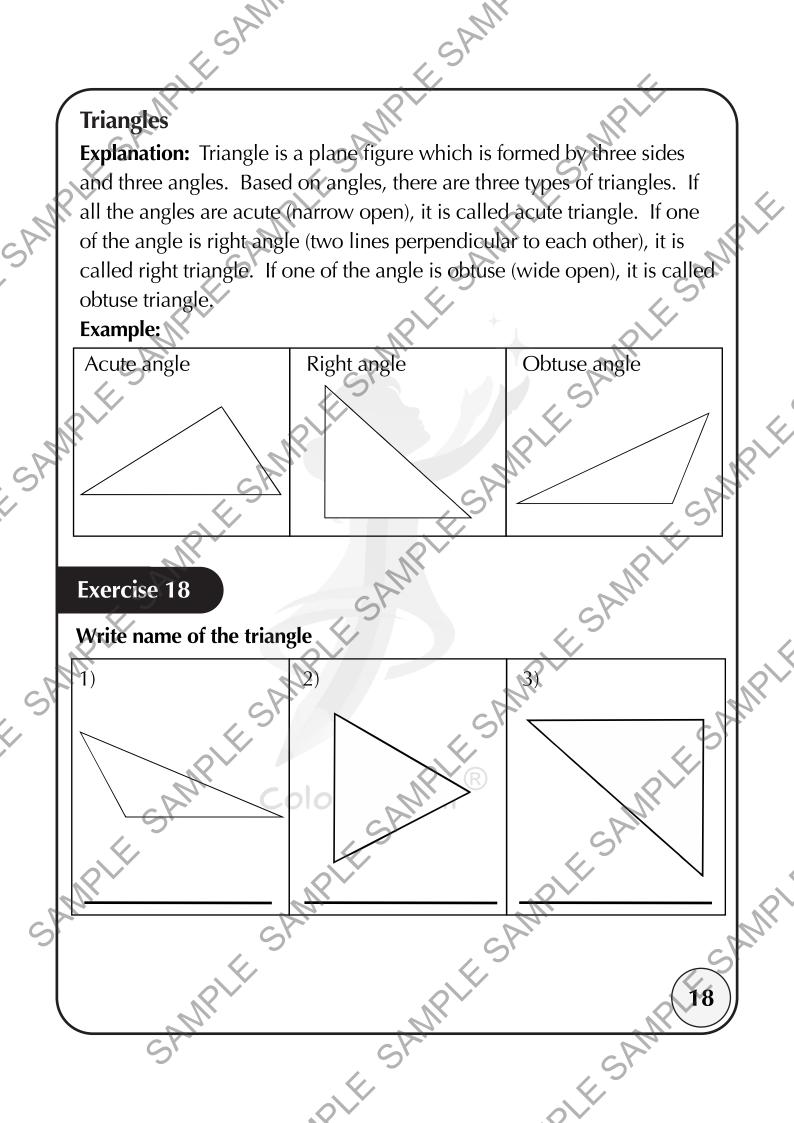
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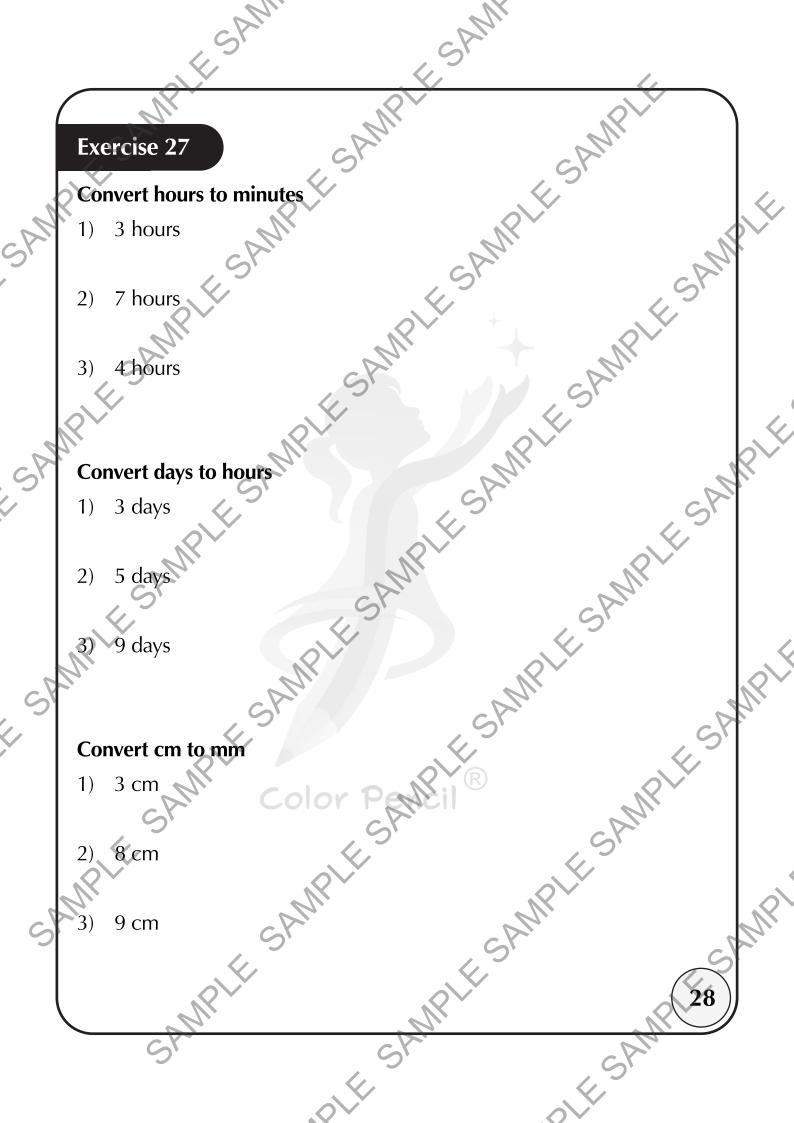
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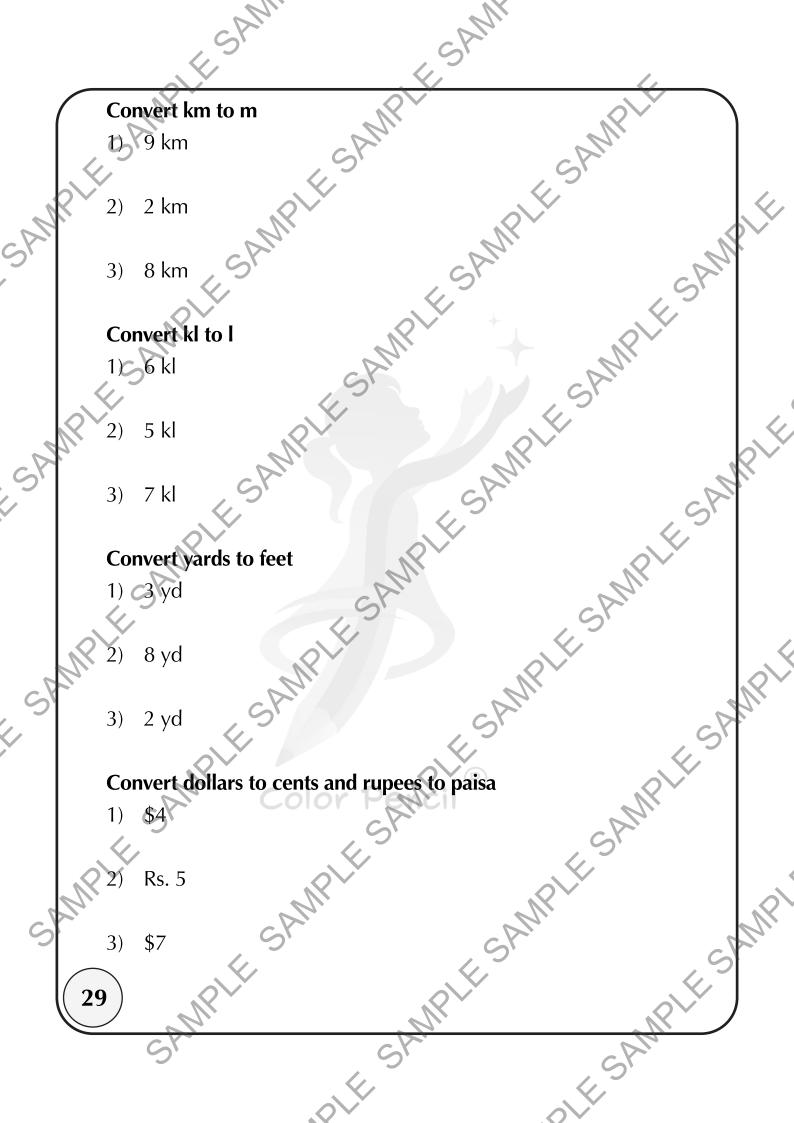
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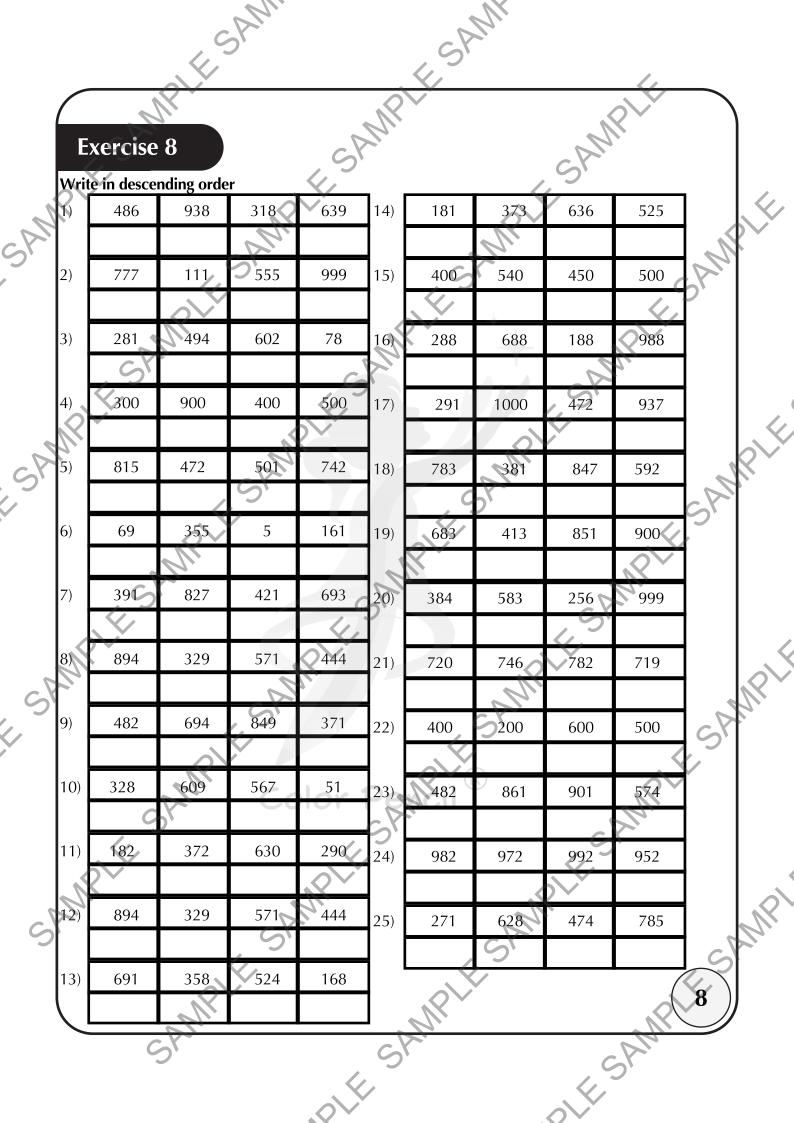
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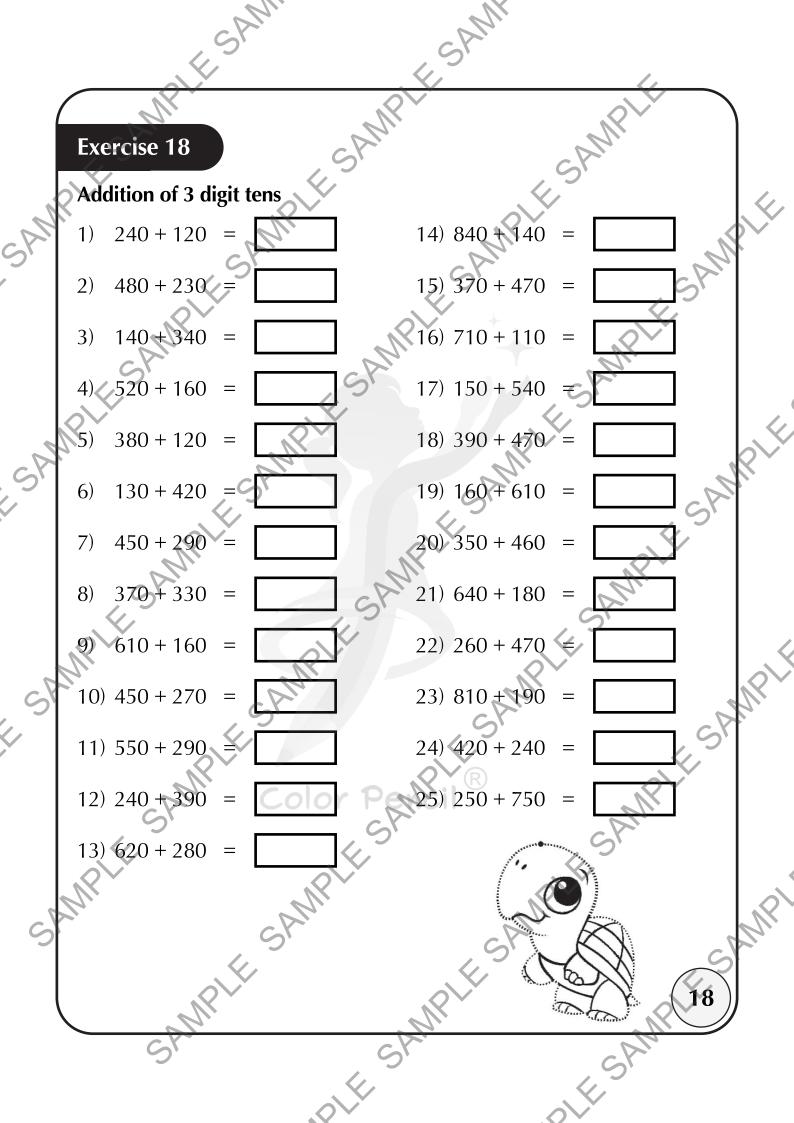
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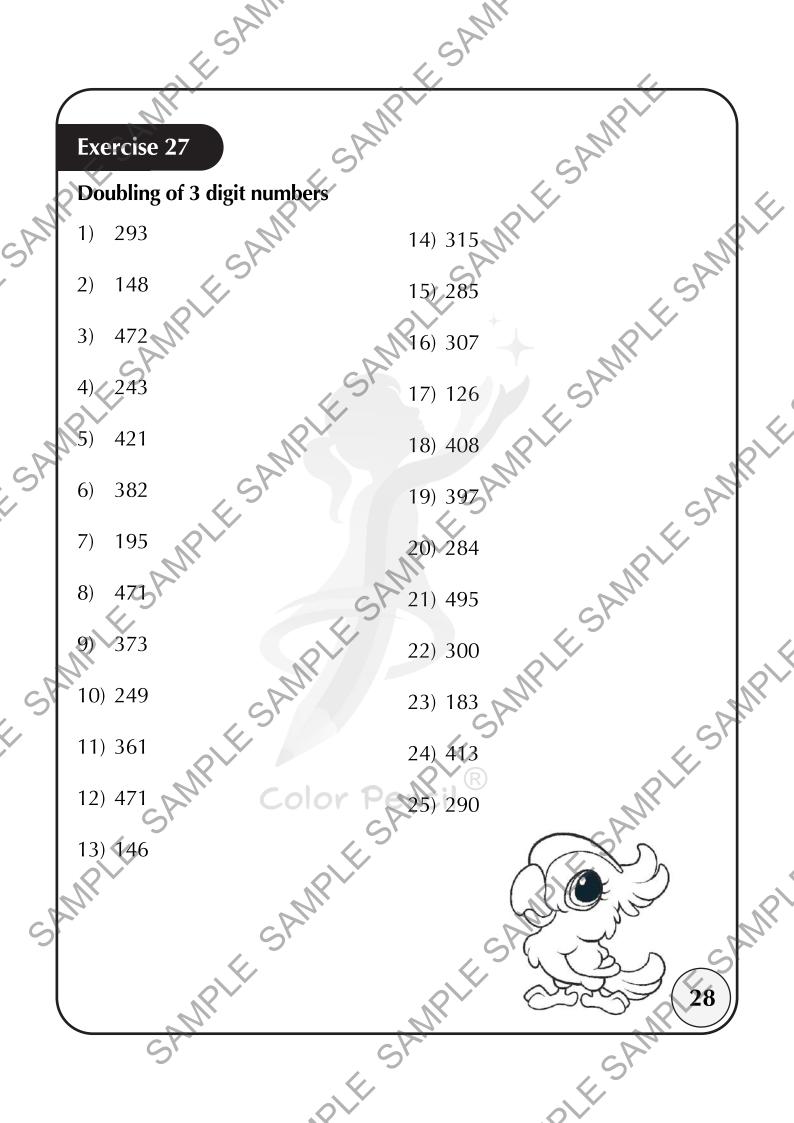
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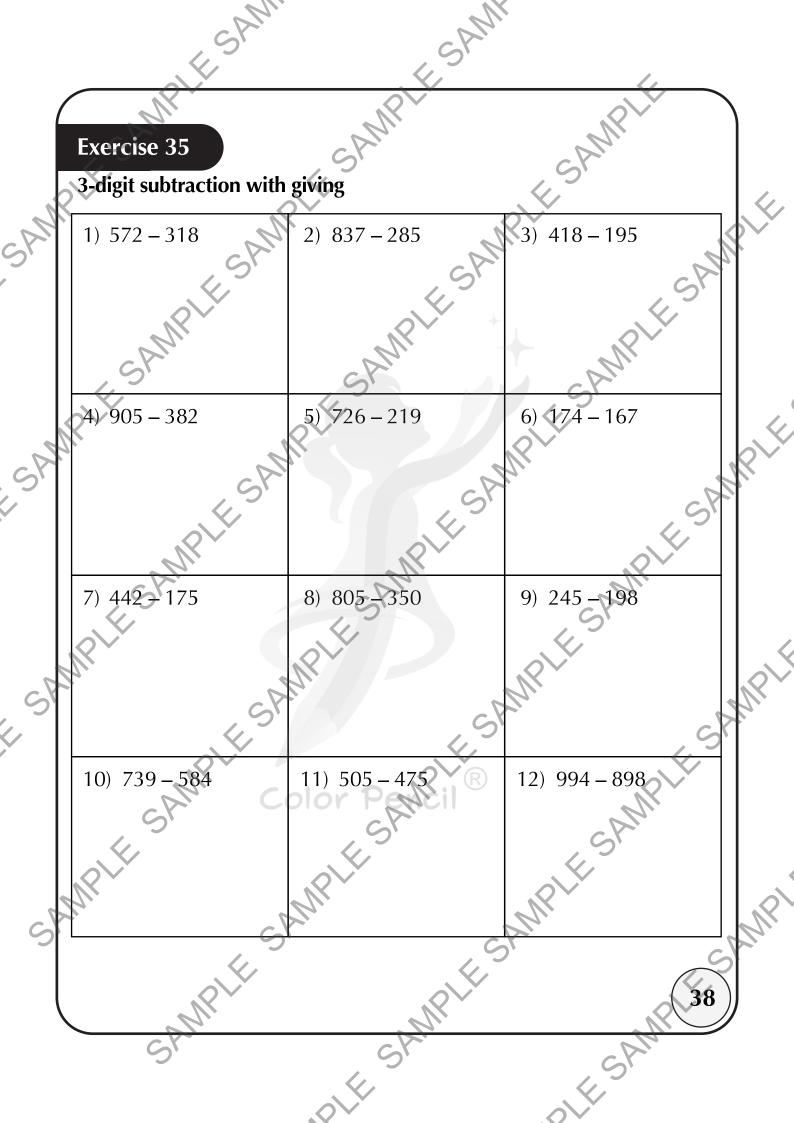
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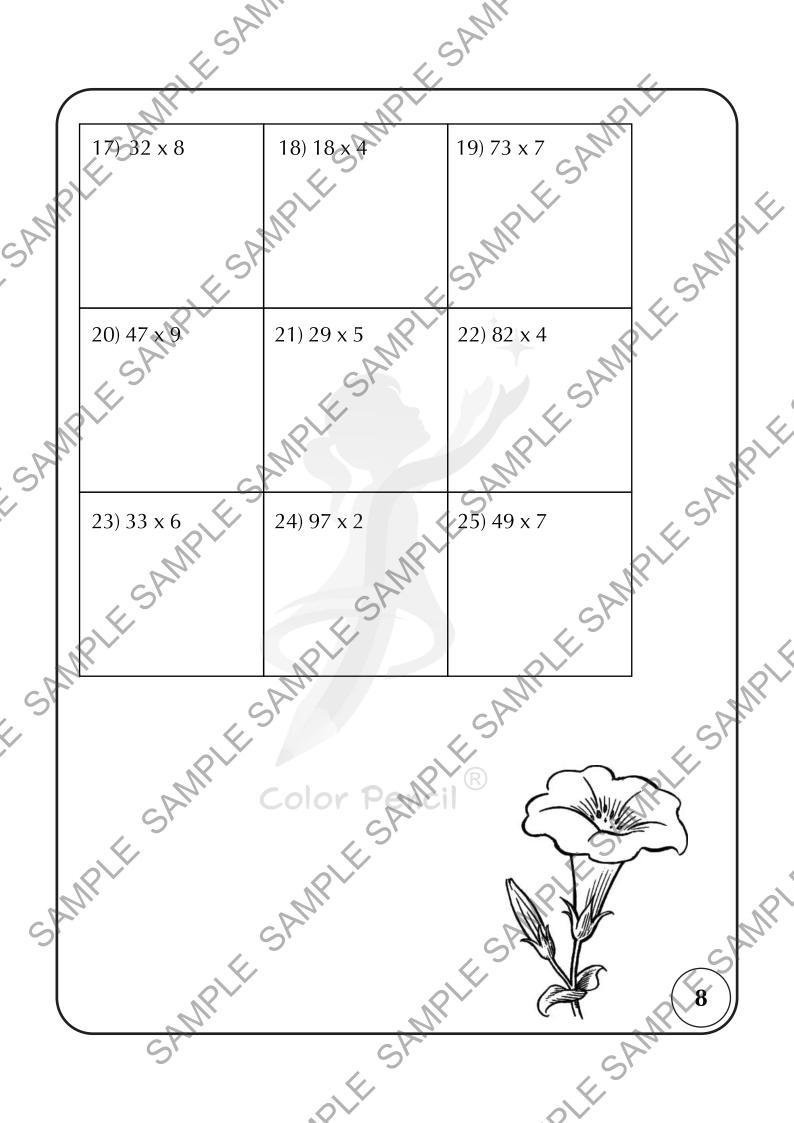
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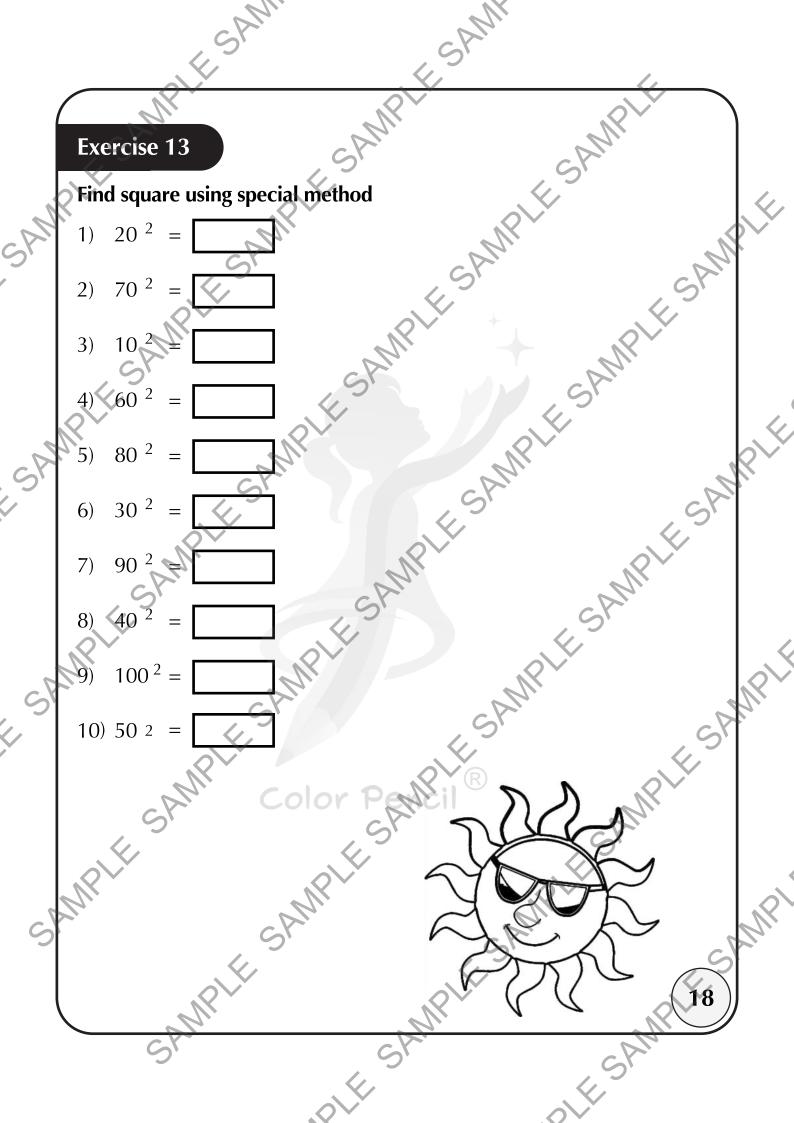
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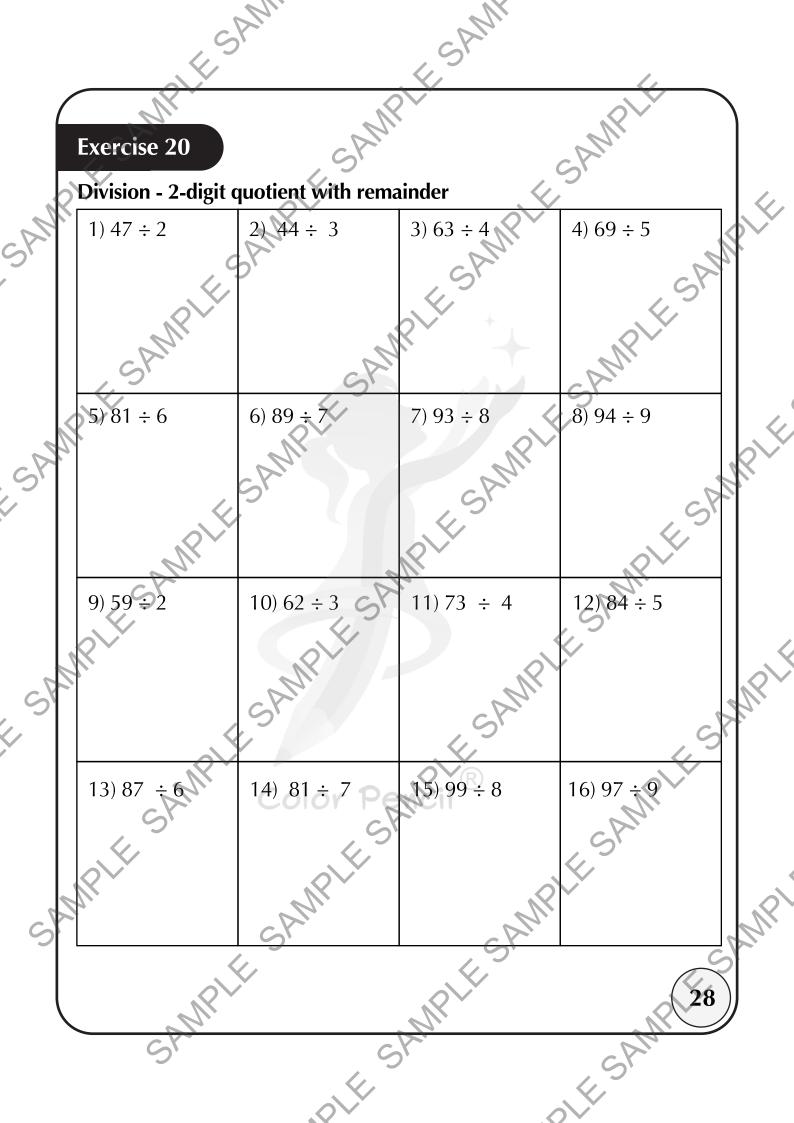
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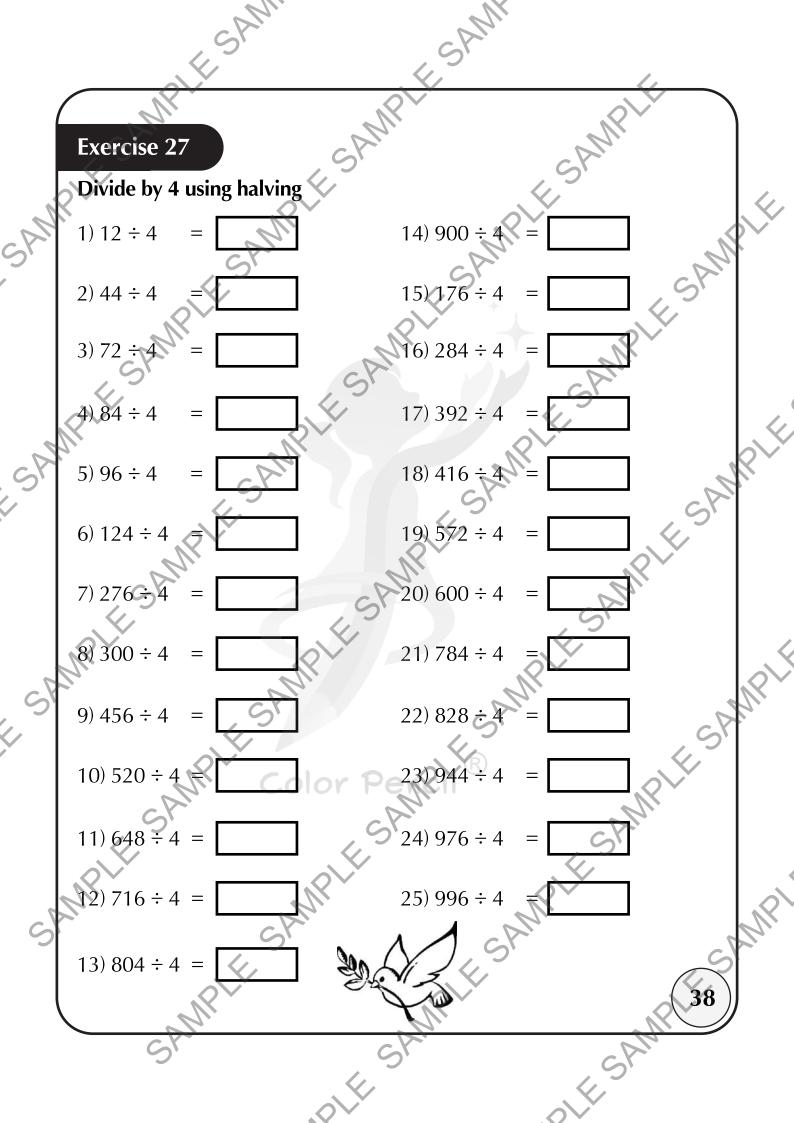
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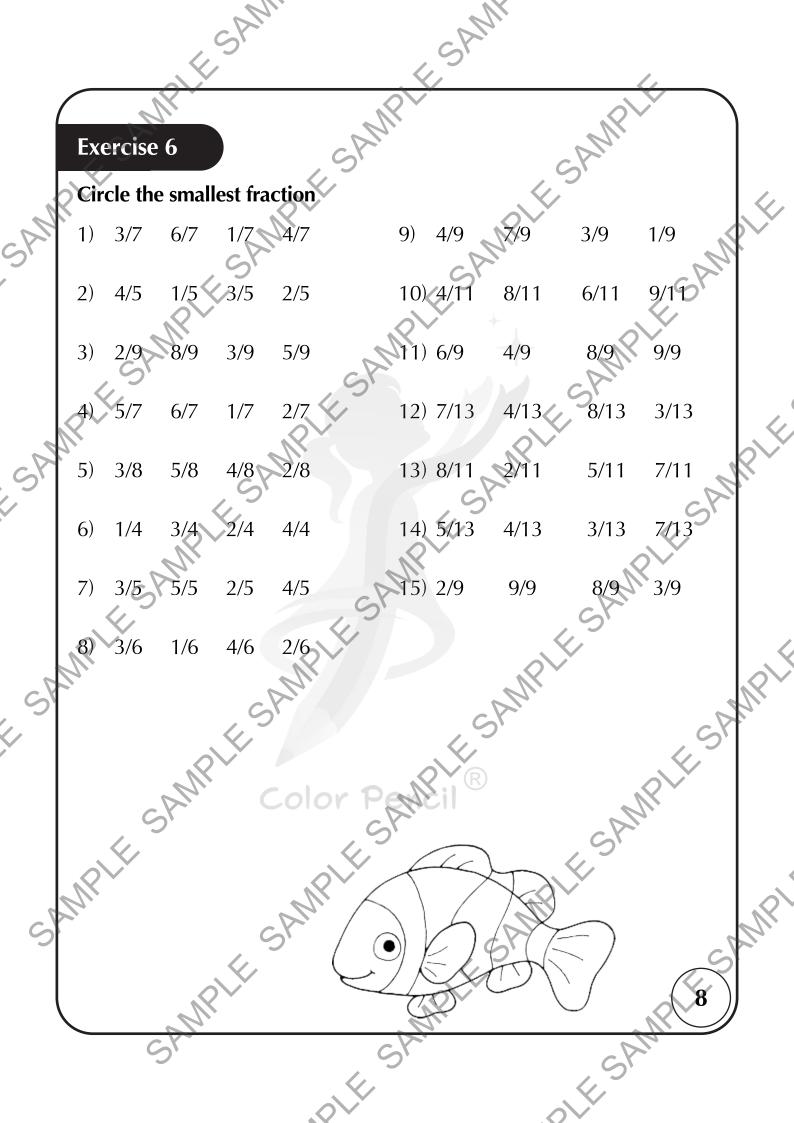
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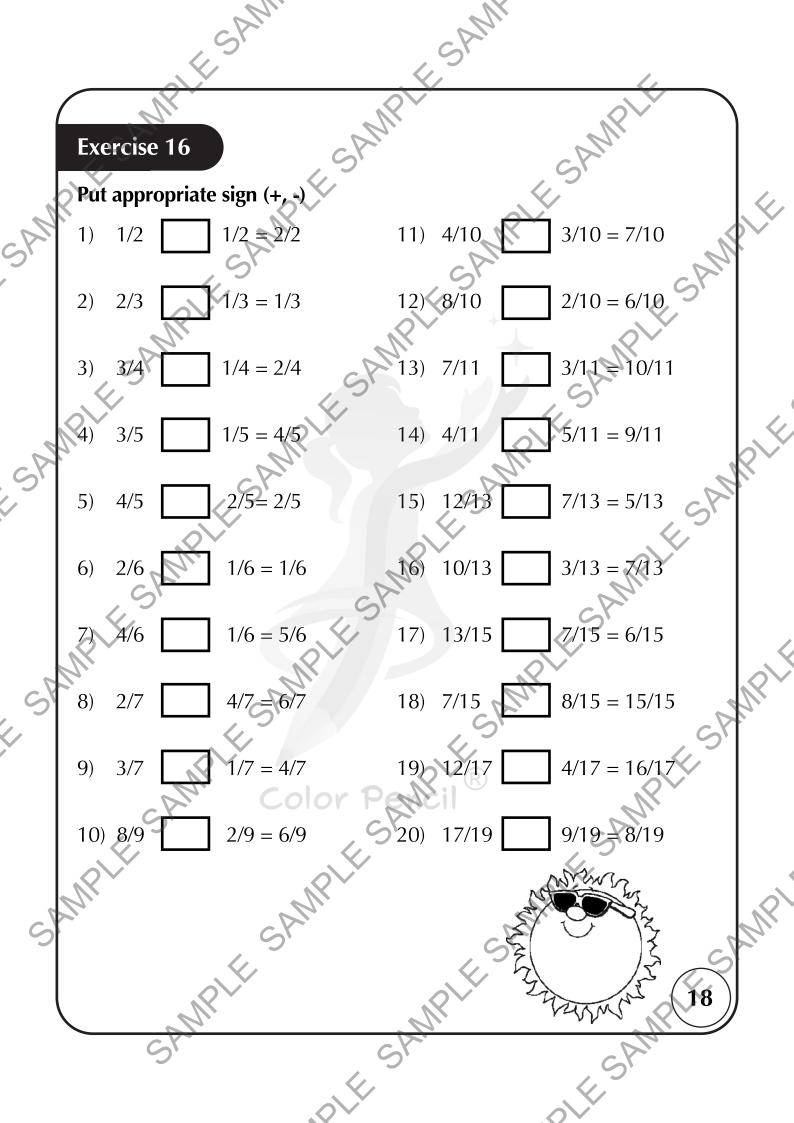
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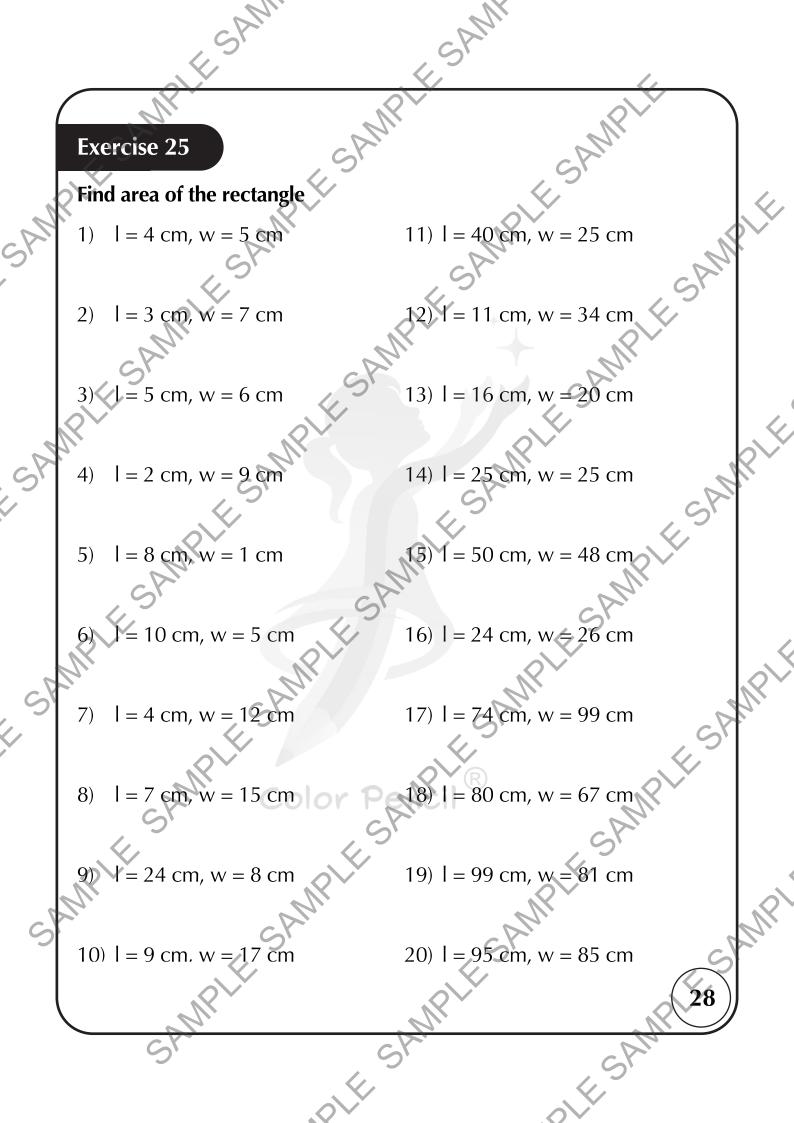
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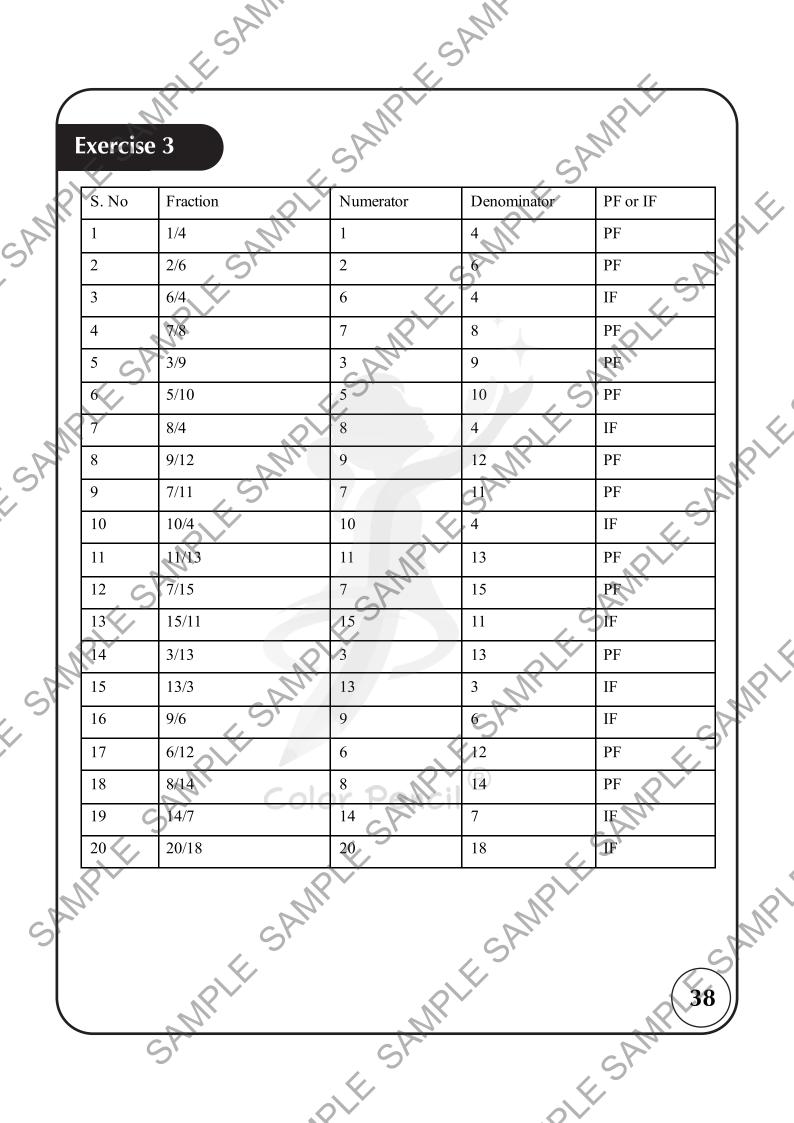
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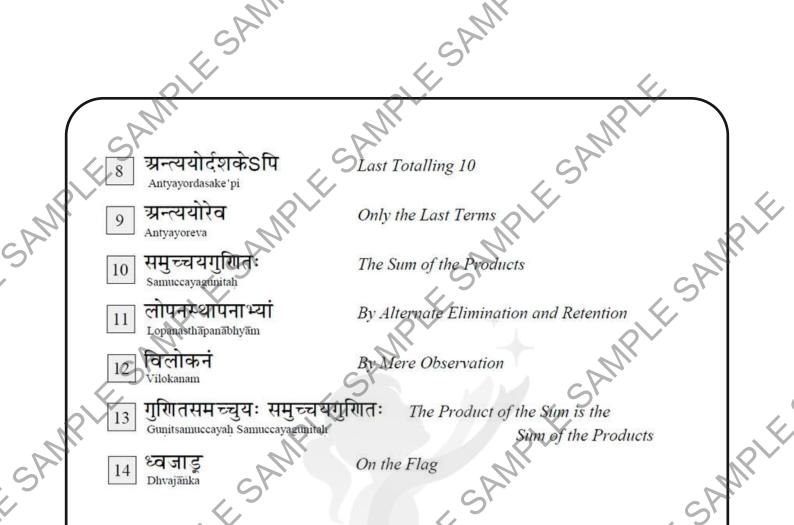
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Every concept in Math is under any one of the sutras. More than one sutra is applicable to some methods. In this book, some sutras are mentioned under some methods. It just shows how the sutras are related to concepts. It does not mean that the particular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

#### **NUMBERS**

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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.

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

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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

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#### 385 + 246

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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 APLE SAMPLE 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	4) 835 + 127
5) 585 + 375	6) 482 + 129		8) 2857 + 4894
9) 7361 + 1299	10) 5237 + 3488		
11) Come of 0 :	AM	M	
11) Sum of 9 i			
Sutra: "By add	ition"	, 5	
Type: Genera		X	

#### 11) Sum of 9 in between

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.

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### 5) Subtracting base numbers

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Sutra: "By mere observation"

Type: Special

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4.SA 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 FESAMPI the minuend, do 43 - 8 using splitting which gives 35 and write it with 29. 49

43 | 29 - 8 | 00 = 43 - 8 | 29 = 3529 4329 - 800 = 3529

471 - 20

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

47 | 1 - 2 | 0 = 47 - 2 | 1 = 451471 - 20 = 451

Observe the numbers and do mind calculation

# **Exercise 19**

#### Subtract base number

1) 74 – 30
5) 693 – 400
9) 3295 - 500

2) 98 - 50 6) 847 - 500 10) 8275 – 7000

INF SAT

3) 482 - 40

7) 2957 - 80

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4) 928 70 8) 2504 – 70

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#### 12) Subtract from unity base numbers

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

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Type: Special

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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 SAMPLESAMP number is given below. SAMPLESAN

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9 10 9 9 9 10000 3849 6 1 5 1

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. 4-S

#### Examples: 1000 - 328

Color Paneil 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. Both are satisfied, so we can use the sutra "All from 9 and the last from 10". s AMPLESI SAMPLESI



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