

ADDITION AND SUBTRACTION

Addition

Numbers can be added in any order. Their sum will remain the same. 3105 + 2692 = 57972692 + 3105 = 5797

When 1 is added to a number, the sum is the successor (the number after). 8670 + 1 = 8671

When 0 is added to a number, the sum is the number itself. 0 + 9878 = 9878

Addition of large numbers is the same as addition of small numbers.

EXAMPLE 1 Add 23408 and 62897. EXAMPLE 2 Add 754073, 8249 and 37398.





		-	8	2	4	9
+		3	7	3	9	8
_	7	9	9	7	2	0



ANS. 799720

Subtraction

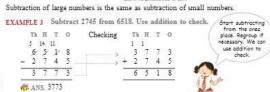
When 0 is subtracted from a number, the difference is the number itself. 4058 - 0 = 4058

When 1 is subtracted from a number, the difference is the predecessor (the number before). 6214 - 1 = 6213

When a number is subtracted from itself, the difference is always 0. 5769 - 5769 = 0

6213 is the over

Subtraction of large numbers is the same as subtraction of small numbers.









EXAMPLE 4 Subtract 153852 from 203291. Use addition to check.

Exercise 2.1

A. Find the sum. ANS

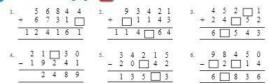
1. 65758 + 79899	2. 94976 + 99758
3. 53428 + 7346 + 989	4. 277054 + 35570
5. 321977 + 44698 + 5489	6. 63546 + 84794 + 386256

(1) B. Find the sum of the largest and the smallest 5-digit number.

C. Find the difference.

Committee of the Commit	-		
1. 87654 - 8765	2. 97320 - 68351	3. 30052 – 12345 	
4. 630105 - 5815	5. 991352 - 11352	6. 771122 - 580403	

(1) D. Fill in the missing digits. (ANS)



(1) E. Solve. (ANS)

1. 343257 + 4068 - 15938 2. 774891 - 62340 + 17389 3. 358689 - 8748 + 397045 4. 9915521 - 6405 + 858



ANS. 49439



STORY SUMS

EXAMPLE 5 A merchant had 78,534 sacks of potatoes. He sold 3,748 sacks on Monday and 5,637 sacks on Tuesday.

How many sacks did he sell in all on these two days? How many sacks were left?



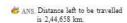
Number of sacks sold on Monday = 3,748 Number of sacks sold on Tuesday = 5,637	+	3 5	7	4	8
Number of sacks sold on these two days = 3,748 + 5,637 = 9,385		9	3	8	5
Number of sacks left = Total number of sacks -	7	8	5	3	4

9 3 8 5 = 78,534 - 9,385 6 9 1 4 9 = 69,149

& ANS. 9,385 sacks were sold in all and 69,149 sacks were left.

EXAMPLE 6 The distance between two planets is 3,50,000 km. A spaceship travelling between the planets has covered 1,05,342 km.

What distance is left for it to travel? Total distance between the two planets = 3,50,000 kmDistance covered by the spaceship = 1,05,342 kmDistance left to be travelled = 3,50,000 km - 1,05,342 km









1. A school library had 66,500 books. 8,947 books were issued to the students and 4,033 to the teachers. How many books are still in the library?



2 4 4 6 5 8





2. Mrs Patnaik bought a laptop for <u>142,555</u> and a refrigerator that was priced <u>7</u>,920 less than the laptop. How much did she pay for both?

= 2,44,658 km

- 3. There are 55,299 honeybees in a beehive. On Monday, 4,684 bees went out in the morning looking for flowers. 3,276 bees went out in the afternoon. How many bees went out looking for flowers on Monday? How many bees did not leave the beehive on Monday?
- 4. Mary takes a loan of 280,00,000 from a bank to buy a house. If she also pays $\Xi 7,00,000$ from her own savings, how much does the house cost?



MULTIPLICATION AND DIVISION

Multiplication

Numbers can be multiplied in any order. The product will remain the same. 392 × 9 = 9 × 392 = 3528

when a number is multiplied by 1, the product is the number itself. 508 × 1 = 508 When a number is

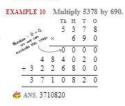
When a number is multiplied by 0, the product is 0. $734 \times 0 = 0$

Large numbers are multiplied in the same way as small numbers.

-L-L-MI	PLE	7	Mi	ltipl	y 454	/ 10
	Th	H	T	0		
	4	2	5			
	4	5	2	7		
×				8		
3	6	2	1	6		

EXA	MP	LE 8	1	VIul	ltip	ly 3247 by 36.
		Th	H	T	0	
		3	2	4	7	
	×			3	6	\rightarrow 30 + 6
	1	9	4	8	2	← 3247 × 6
+	9	7	4	1	0	← 3247 × 30
1	1	6	8	9	2	
di	Al	VS. 1	168	392	- 53	









To multiply a number by 10, 100, 1000, ..., write one, two, three, ... zeros, respectively, at the end of the product.

EXAMPLE 11 Multiply s. 23 by 100 b. 916 by 300 в. 23 × 100 = 2300 b. 916 × 300 = 274800 # ANS. 2300 # ANS. 274800

EXAMPLE 12 Multiply s. 42 by 1000 b. 105 by 6000

в. 42 × 1000 = 42000 b. 105 × 6000 = 630000 ₫ ANS. 630000 ANS. 42000



Division

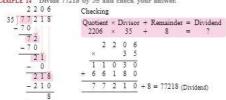
When a number is divided by 1, the quotient is the number, the quotient is 0. 0 + 36 = 0 0 + 999 = 0 When a number is divided by itself, the quotient is 1. 36 + 1 = 36 $36 \div 1 = 36$ $999 \div 1 = 999$



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EXAMPLE 13 Divide 825 by 3 and check your answer.
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825	Quotie	ent	×]	Divi	1501	+ Re	mair	ider =	Divide
-0	275		×	3		+	0	=	?
- 2 1			2	7	5				
1 5		×			3				
-15			8	2	5	+0=	825	(Divid	lend)
0					_				

EXAMPLE 14 Divide 77218 by 35 and check your answer.



ANS. Q = 2206, R = 8

EXAMPLE 15 Divide 51326 by 245 and check your answer.

2 0 9	Che		-							
	Qu	otie	nt	x I	Divis	or	+	Remain	nder =	 Dividend
245 5 1 3 2 6	-	209		×	245		+	121	-	?
- 4 9 0 - 2 3 ž				2	0	9				
- 0			×	2	4	5				
2326			1	0	4	5				
-2205			8	3	6	0				
121	+	4	1	8	0	0				
121		5	1	2	0	5	+	121 =	51326	(Dividend)

ಈ ANS. Q = 209, R = 121



Exercise 2.3

(1) A. Find the product. (AMS)

1. 4258 × 36 2. 1608 × 29 3. 5097 × 43 4. 352 × 416 5. 654 × 308 6. 1325 × 613 7, 2035 × 480 8. 5826 × 109

(1) B. Divide and check your answer in your notebook. (ANS)

1. 12686 + 9 2. 4987 + 16 3. 3005 + 18 4. 16254 + 23 5. 3179 + 25 6. 40120 + 32 7. 20045 + 22 8. 1647 + 125

STORY SUMS

EXAMPLE 16 A set of books costs =1,459. A school ordered 375 such sets. How much did the school pay? Cost of 1 set of books = ₹1,459 Cost of 375 sets ordered by the school = =1,459 × 375 = =5,47,125 ANS. The amount paid by the school is =5,47,125.

EXAMPLE 17 Mala's annual income is _5,34,250. She spends _4,80,250 and saves the rest. How much money does she save monthly if she saves an equal amount every month?

Amount she spends = $\pm 4.80,250$ Amount she saves = $\pm 5.34,250 - \pm 4.80,250$							4 5 0 0 12 5 4 0 0 0
						= =5	- 48
_	5	3	4	2 2	5	0	6 0 - 6 0
_		5	4	0	0	0	- 0 ŏ
Amo	oun	t sk	ie s	aves	en	ery mo	- 0 0



ANS. Mala saves 24,500 every month.

Maths Online



For more practice on addition, subtraction, multiplication and division, visit rsgr.ln/lm5-1



O Solve these story sums.

- A class of 16 students went on a trip to Jaipur. The school spent =12,984 on the trip in all. How much did each student contribute if the school contributed =5784?
- There are 98,800 books in a library. How many shelves are there in the library if 400 books can be kept on 4 shelves?
- Mrs Kalam earns =10,250 every month. How much money does she earn in two years?
- 4. In Mr Singh's orchard, there are 125 rows of apple trees with 28 trees in each row. How many apple trees are there altogether?
- 5. Mr Singh ordered 4680 apple tree saplings. He wants to plant them in 18 rows. How many of them should he plant in each row?
- 6. There are 11,050 raw apples. The number of ripe apples is twice the number of raw apples. Mr Singh packs an equal number of ripe apples in 850 boxes. How many ripe apples will each box contain?





WHICH OPERATION?

EXAMPLE 18 The sum of two numbers is 342. If one number is 195, find the

195 + the number = 342



EXAMPLE 19 What should be added to 756 to get 1300?





EXAMPLE 20 The product of two numbers is 144. If one number is 6, find the

 $6 \times \text{the number} = 144$







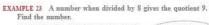
EXAMPLE 21 A number when multiplied by 7 gives 91 as the product. Find the







EXAMPLE 22 By which number should 84 be divided to get 6 as the quotient? 84 ÷ the number (divisor) = 6 (quotient) DIVIDE to find the number (divisor).

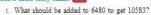


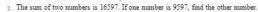












- 3. What should be added to 17526 to get 30000?
- 4. The product of two numbers is 6025. If one number is 25, find the other number.
- 5. A number when multiplied by 13 gives 1820 as the product. Find the number.
- 6. By what number should 153 be divided to get 9 as the quotient?
- 7. A number when divided by 13 gives the quotient 109. Find the number.

THE FOUR OPERATIONS TOGETHER

When there is more than one operation in a question, follow the rule of DMAS to find the answer.



EXAMPLE 24 Simplify $10 + 8 \div 4 - 2 \times 6$.

$8 \div 4 = 2$
$2 \times 6 = 12$
10 + 2 = 12
T 12 - 12 = 0
1 12-12-0



EXAMPLE 25 Simplify 30 - 14 ÷ 7 × 5.

30 - 14 ÷ 7 × 5	DIVIDE	$14 \div 7$	= 2
$30 - 2 \times 5$	MULTIPLY	2 × 5	= 10
30 - 10 = 20	SUBTRACT	30 - 10	= 20
AND 20			





(1) Simplify. (ANS)

1. 8 + 12 - 6 × 2	2, 4 × 5 + 30 ÷ 5	3. $3 + 40 \div 10 - 3$
4. $14 + 7 \times 2 - 16 \div 2$	5. $2 + 4 \times 6 - 2 \times 6$	6. 20 × 5 - 100 ÷ 100
7. $8 + 20 \div 5 = 0 \div 3$	8. $75 \times 0 - 0 \div 75$	$9.39 - 0 + 5 \times 999$





Aim: To demonstrate the magic of 1089 You will need: Your notebook and a pencil Preparation: Work in pairs.

- Choose a 3-digit number in which the digit in the hundreds place is greater than the digit in the ones place. This is number A.
- Reverse the order of the digits. You will get number B. Subtract B from A. Write the difference. This is number C.
- Then reverse the order of the digits of number C.
 You will get number D. Add C and D. What is the answer?
- Give one another some numbers to work with, such as 413, 682, 564, 321, 938, 713 and 160.

What do you observe about the answer?

7 2 1 A - 1 2 7 B Example: 5 9 4 C + 4 9 5 D 1 0 8 9



- Mrs Rao uses a water filter in which 15 litres of water is wasted
 - every day. Help her to use this water. AUS

 4 L to water the plants 2 L to soak clothes 5 L to wash the car
 - 1. Total water used = _____; water left = ___
 - 2. Water needed for plants for 365 days = _
 - 3. Left over water poured equally in 2 bowls for birds. Each bowl will have __



- ① A. The product of a 2-digit number and a 3-digit number cannot be more than (2+3)=5 digits. Fill in the blanks.
 - 1. The product of two 3-digit numbers cannot be more than _ digits.
 - $_{\rm 2.}$ The product of a 3-digit number and a 4-digit number cannot be more than __ + ____) = _____ digits.
- (1) B. Complete the division grid. (ANS)

*	72	120	600	900
2	36			
3				
6				

- (1) C. Fill in the blanks. ANS
 - 1. 72 × 10 × 0 × 1 = _____ = 32000 3. _____ ÷ 7 = 15 4. 100 ÷ 5 = _____
 - 5. 16 × 9 = 144. So, 144 ÷ 9 = __
- ① D. Compare each pair of numbers. Put >, < or = in the
 - 1. 3 × 7 × 10 30 × 7 × 1 2. 6 × 5 90 ÷ 2 3. 44 × 10 10 × 10 4. 110 ÷ 11 120 ÷ 12 5. 4 × 5 × 0 2 × 10 6. 64 ÷ 64 32 ÷ 1
- (1) E. Build the target number with the 3 given numbers, using a combination of operations $(+, -, \times, \div)$. ANS
 - 1. Target number = 22
 - 2 4 6 4 x 6 2 = 22
 - 3. Target number = 4
- 2. Target number = 15
- 1 3 18 _
- 4. Target number = 13





			(1)			
) A.	Fill in the blank	SS. ANS				
	11175 +					
3.	If $110 \times 6 = 66$	0, then 110 × 12 =				
4.	When a number What is the num		ne quotient is 15 and t	he remainder is 10.		
5.	Double of a number is 88. What is half of the number?					
6.	Twice the product of 9 and 7 is					
7.		the smallest 3-digit 15 is	number and the face v	alue of the digit 7 in		
	Tick (√) the co	rrect option. (HINT:	Use the DMAS rule.)	ANS		
D.						
1.	12 ÷ 3 × 2	TOTAL TRANSPORTED	Section of the sectio	and the same of th		
1.	s. 18 []	ъ. 2[]	c. 8	d. 17 🗀		
1.	s. 18 7 - 10 ÷ 2	Sec.	W-2/-			
1.	s. 18	b. 2 [] b. 2 []	c. 8 [] c. 3½ []	d. 17 []		
1. 2. 3.	*. 18	ъ. 2	e. 3½	d. 4 [_]		
1. 2. 3.	*. 18	Sec.	W-2/-			
1. 2. 3.	*. 18	b. 2 b. 4	c. 3½ □ c. 6 □	a. 4 []		
1. 2. 3.	*. 18	ъ. 2	e. 3½	d. 4 [_]		
1. 2. 3.	*. 18	b. 2 \ b. 4 \ b. 12 \	c. 3½ □ c. 6 □	a. 4 []		

- How many less green beads than red beads are there in the bag?
- 2. Tarun bought 50 boxes of eggs. Each box contains two dozen eggs. From those he sold 975 eggs. How many eggs were left?
- 3. Kanya had 64 boxes of pencils. Each box contained 18 pencils. She repacked them equally in 24 bags. How many pencils were there in each bag?
- 4. Every month, Mr Ali gets a salary of c45,800 and his mother gets a pension of

3.