LEARNING+

Powerful Maths Methods Challenging to Solve Problem Sums

Primary 1&2



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Message from the Author

Mathematics problems are like onions. They have layers, much like Mathematics problems. A challenging problem is constructed by the layering of many easier problems together. Pupils are unable to solve a problem because they have not broken down the bigger problem into smaller and easier problems to solve. I hope that through this book, pupils will acquire the skill of breaking down Mathematics problems and no longer face frustration when solving them.

"If there is a problem you can't solve, then there is an easier problem you can solve: find it."

~ George Polya

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Name: _____

Class: _____

SAMPLE



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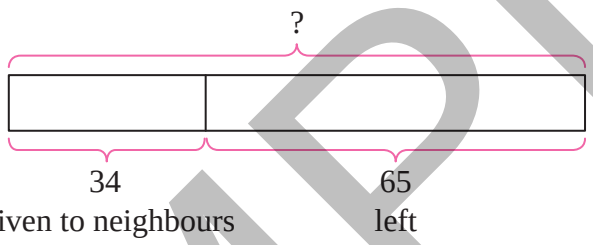


1 Before and After Word Problems (Basic Concept)

Example

Jean baked some tarts. She gave 34 of them to her neighbours and had 65 tarts left. How many tarts did Jean bake?

Solution:



34 + 65 = 99

She baked 99 tarts.

1 Kaden collected 48 stamps. His father gave him another 23 stamps. How many stamps did Kaden have in the end?

Teacher's comment

Use model drawing to find out if addition or subtraction is required.

He had _____ stamps in the end.

SAMPLE

2 There were 23 passengers on a bus at first. At a bus stop, some passengers boarded the bus. There were 34 passengers on the bus in the end. How many passengers boarded the bus at the bus stop?

_____ passengers boarded the bus at the bus stop.

3 Adam collected 61 marbles. His mother gave him another 34 marbles. How many marbles did Adam have in the end?

He had _____ marbles in the end.

SAMPLE

4 There were some passengers on a bus. At a bus stop, 8 passengers boarded the bus. There were 42 passengers in the end. How many passengers were on the bus at first?

_____ passengers were on the bus at first.

5 Jack had some stamps. He gave 56 of them to his grandfather and had 81 stamps left. How many stamps did Jack have at first?

He had _____ stamps at first.

SAMPLE

6 Prema baked 72 tarts. She gave 54 tarts to her friends. How many tarts did she have in the end?

She had _____ tarts in the end.

7 Peter had 76 game cards at first. His friend gave him some game cards and he had 84 game cards in the end. How many game cards did his friend give him?

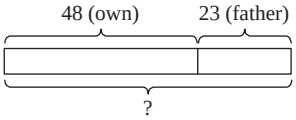
His friend gave him _____ game cards.

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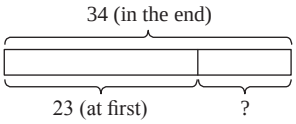
1 Before and After Word Problems (Basic Concept)

1



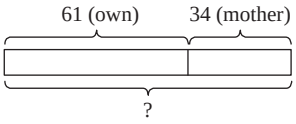
48 + 23 = 71
He had **71** stamps in the end.

2



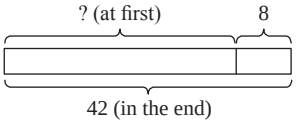
34 – 23 = 11
11 passengers boarded the bus at the bus stop.

3



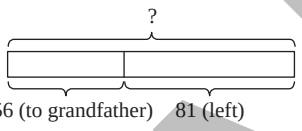
61 + 34 = 95
He had **95** marbles in the end.

4



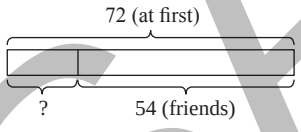
42 – 8 = 34
34 passengers were on the bus at first.

5



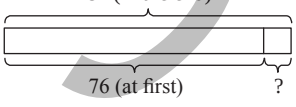
56 + 81 = 137
He had **137** stamps at first.

6



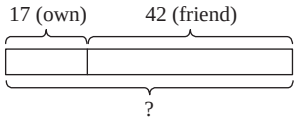
72 – 54 = 18
She had **18** tarts in the end.

7



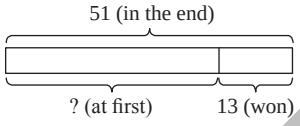
84 – 76 = 8
His friend gave him **8** game cards.

8



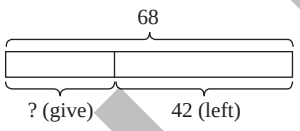
17 + 42 = 59
Megan had **59** buttons in the end.

9



51 – 13 = 38
He had **38** game cards at first.

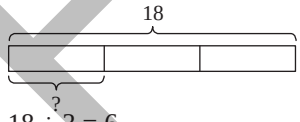
10



68 – 42 = 26
He gave **26** stickers to his friends.

2 Basic Multiplication and Division Word Problems

1



18 ÷ 3 = 6
She packed **6** pens into each box.

2 18 ÷ 2 = 9
She used **9** boxes.

3 21 ÷ 3 = 7
There would be **7** marbles in one bag.

4 24 ÷ 3 = 8
There would be **8** bags.

5 6 × 4 = 24
She had **24** cupcakes.

6 1 group → 1 × 8 = 8
2 groups → 2 × 8 = 16
3 groups → 3 × 8 = 24
4 groups → 4 × 8 = 32 (Kelly had only 26 counters.)
She was able to form **3** groups of 8 counters.

7 36 ÷ 9 = 4
There are **4** rows of chairs in the room.

8 8 × 5 = 40
There are **40** tables in the room.

9 27 ÷ 3 = 9
There are **9** children in each row.

SAMPLE