



# MATHEMATICS



**N.S. Yr. 4 P.42**

**Using relationships between addition and subtraction and adding several numbers.**

## Equipment

Paper, pencil, calculator.

# MathSphere

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### **Concepts**

Children should know that if one of the following facts are known, the others can be deduced without further calculation:

$$25 + 17 = 42 \qquad 17 + 25 = 42$$

$$42 - 17 = 25 \qquad 42 - 25 = 17$$

They should be able to calculate one of the combinations mentally and then state the other three.

Given a set of numbers such as 35, 78, 23 and 55, they should be able to write down and calculate several combinations of these numbers in addition and subtraction sums, some with just two of the numbers such as  $78 + 55$  and some with more such as  $35 + 23 + 55$ .

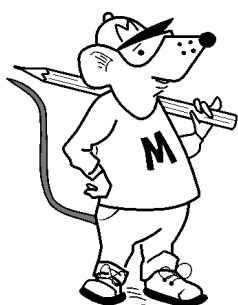
They should be able to add together quickly several small numbers such as  $8 + 15 + 3$  and should spot pairs of numbers that make 10 or 100 and therefore make the sum easier to calculate such as  $2 + 7 + 6 + 3 + 8$  or  $30 + 27 + 70$ .

They should be able to extend this idea to numbers that total 9 or 11 and adjust by one at the end.

They should also be able to spot equivalences such as ' $7 + 6 + 8 + 7$  is the same as four sevens'.

Lastly, children should be able to explain their methods and show that they have used shortcuts and logical techniques to arrive at their answers.

If you know that  $17 + 5 = 22$ , you can say straight away that  $5 + 17 = 22$ .



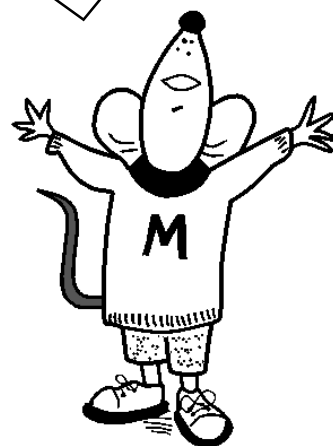
Yes, but did you know that this also means that  $22 - 17 = 5$  and that  $22 - 5 = 17$  ?

In these questions, you are told one fact about a sum. Write down three others without doing any more sums. The first one is done for you.

1.  $15 + 22 = 37$  This means that  $22 + 15 = 37$ ,  $37 - 15 = 22$  and  $37 - 22 = 15$
2.  $47 + 36 = 83$
3.  $39 + 68 = 107$
4.  $33 + 16 = 49$
5.  $19 + 73 = 92$
6.  $60 + 36 = 96$
7.  $89 - 57 = 32$
8.  $74 - 18 = 56$
9.  $74 - 55 = 19$
10.  $112 - 89 = 23$
11.  $73 - 16 = 57$
12.  $59 - 18 = 41$

Spotting patterns like these can save a lot of work!

This gives more time for eating cake!



Don't forget, if you know that  $67 + 18 = 85$ ,  
you can say straight away that  $18 + 67 = 85$ .



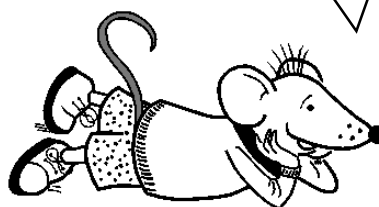
Great! Remember too that  
this also means that  
 $85 - 18 = 67$  and that  
 $85 - 67 = 18$ .

In these questions, you are told one fact about a sum. Write down three others without doing any more sums. The first one is done for you.

1.  $38 + 22 = 60$  This means that  $22 + 38 = 60$ ,  $60 - 22 = 38$  and  $60 - 38 = 22$
2.  $93 + 11 = 104$
3.  $24 + 56 = 80$
4.  $78 + 22 = 100$
5.  $64 + 46 = 110$
6.  $74 + 23 = 97$
7.  $60 - 14 = 46$
8.  $90 - 54 = 36$
9.  $56 - 24 = 32$
10.  $38 - 20 = 18$
11.  $63 - 16 = 47$
12.  $81 - 25 = 56$

Learn these now and you will find maths easier  
for ever and ever !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Then you can relax, like me.



In these questions, you need to work out the answer first and then write down three similar facts.



The first one is done for you. Aren't we generous?



1. Find  $34 + 52$

$34 + 52 = 86$ . This means that  $52 + 34 = 86$ ,  $86 - 52 = 34$  and  $86 - 34 = 52$

2. Find  $34 + 26$

3. Find  $19 + 14$

4. Find  $52 + 34$

5. Find  $82 + 17$

6. Find  $38 + 22$

7. Find  $93 - 43$

8. Find  $78 - 35$

9. Find  $82 - 27$

10. Find  $57 - 19$

11. Find  $63 - 16$

12. Find  $81 - 25$

You may be brilliant at maths, but you need to go to gym lessons to be able to do this!



In these questions, you need to work out the answer first and then write down three similar facts.



As usual, we have done the first one for you.

1. Find  $28 + 47$

$28 + 47 = 75$ . This means that  $47 + 28 = 75$ ,  $75 - 28 = 47$  and  $75 - 47 = 28$

2. Find  $49 + 12$

3. Find  $63 + 25$

4. Find  $93 + 17$

5. Find  $64 + 16$

6. Find  $48 + 53$

7. Find  $79 - 26$

8. Find  $88 - 45$

9. Find  $70 - 34$

10. Find  $89 - 12$

11. Find  $72 - 43$

12. Find  $74 - 40$

And dancing lessons to do this!

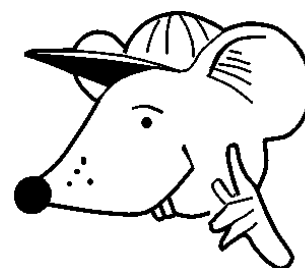


Without doing any working, answer the following questions:

1. If  $34 + 38 = 72$ , what is  $72 - 38$  ?
2. If  $96 + 4 = 100$ , what is  $4 + 96$  ?
3. If  $67 - 39 = 28$ , what is  $28 + 39$  ?
4. If  $73 + 23 = 96$ , what is  $96 - 23$  ?
5. If  $18 + 57 = 75$ , what is  $75 - 18$  ?
6. If  $89 - 29 = 60$ , what is  $60 + 29$  ?
7. If  $100 - 8 = 92$ , what is  $92 + 8$  ?
8. If  $63 - 29 = 34$ , what is  $63 - 34$  ?
9. If  $78 + 12 = 90$ , what is  $90 - 12$  ?
10. If  $54 + 46 = 100$ , what is  $46 + 54$  ?
11. If  $93 - 17 = 76$ , what is  $93 - 76$  ?
12. If  $67 + 22 = 89$ , what is  $89 - 67$  ?
13. If  $74 - 38 = 36$ , what is  $36 + 38$  ?
14. If  $15 + 39 = 54$ , what is  $54 - 39$  ?
15. If  $38 + 46 = 84$ , what is  $84 - 46$  ?
16. If  $17 + 17 = 34$ , what is  $34 - 17$  ?
17. If  $73 + 29 = 102$ , what is  $102 - 73$  ?
18. If  $84 + 15 = 99$ , what is  $99 - 15$  ?
19. If  $94 - 37 = 57$ , what is  $94 - 57$  ?
20. If  $83 - 65 = 18$ , what is  $83 - 18$  ?

What a boring page!  
Make it more interesting by  
seeing how quickly you can do  
these questions.

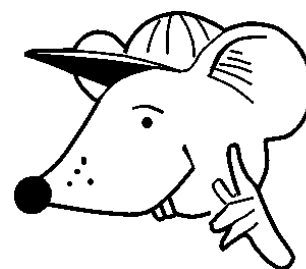
You will need a stop watch or  
timer.



Without doing any working, answer the following questions:

1. If  $16 + 45 = 61$ , what is  $61 - 45$  ?
2. If  $85 - 16 = 69$ , what is  $16 + 69$  ?
3. If  $90 - 34 = 56$ , what is  $56 + 34$  ?
4. If  $72 - 18 = 54$ , what is  $18 + 54$  ?
5. If  $63 - 14 = 49$ , what is  $63 - 49$  ?
6. If  $29 + 55 = 84$ , what is  $84 - 29$  ?
7. If  $94 - 34 = 60$ , what is  $60 + 34$  ?
8. If  $80 - 18 = 62$ , what is  $62 + 18$  ?
9. If  $47 + 37 = 84$ , what is  $84 - 37$  ?
10. If  $80 + 23 = 103$ , what is  $103 - 80$  ?
11. If  $34 + 19 = 53$ , what is  $19 + 34$  ?
12. If  $88 + 12 = 100$ , what is  $100 - 12$  ?
13. If  $99 - 27 = 72$ , what is  $99 - 72$  ?
14. If  $98 - 56 = 42$ , what is  $42 + 56$  ?
15. If  $92 - 23 = 69$ , what is  $69 + 23$  ?
16. If  $98 - 57 = 41$ , what is  $98 - 41$  ?
17. If  $38 - 19 = 19$ , what is  $19 + 19$  ?
18. If  $28 + 28 = 56$ , what is  $56 - 28$  ?
19. If  $29 + 19 = 48$ , what is  $19 + 29$  ?
20. If  $38 - 17 = 21$ , what is  $21 + 17$  ?

See if you can beat your time for the page 7.





Use two of the numbers at a time and write four different addition sums for each question.

Don't forget to work out the answers!

1. 34, 23, 17, 56

2. 18, 67, 28, 39

3. 27, 16, 85, 38

4. 67, 34, 98, 23

5. 67, 34, 61, 93

6. 77, 34, 88, 23

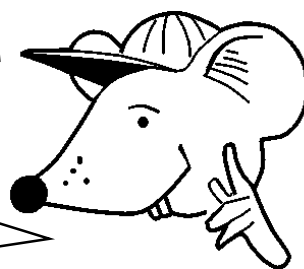
7. 89, 56, 34, 25

8. 94, 62, 38, 55

For example, in question 1 you could have any four of:

$34 + 23$ ,  $34 + 17$ ,  $34 + 56$ ,  
 $23 + 17$ ,  $23 + 56$ ,  $17 + 56$ ,  
and then they can be reversed  
such as  $23 + 34$  ...

You can use a calculator  
to check your answers.



Now use two numbers at a time to make some subtraction sums.  
Make sure the second number is smaller than the first.

9. 65, 89, 34, 52

10. 56, 12, 18, 86

11. 69, 42, 74, 45

12. 88, 45, 63, 37

13. 78, 34, 52, 56

14. 67, 81, 90, 37

15. 78, 26, 92, 54

16. 61, 83, 47, 59

In number 9 you could have  
 $89 - 65$ ,  $52 - 34$ ,  $65 - 52$   
and so on.



Use two of the numbers at a time and write four different addition sums for each question.

Don't forget to work out the answers!

1. 88, 45, 28, 43

2. 78, 45, 29, 93

3. 83, 47, 82, 90

4. 56, 78, 52, 80

5. 61, 56, 91, 38

6. 72, 53, 90, 34

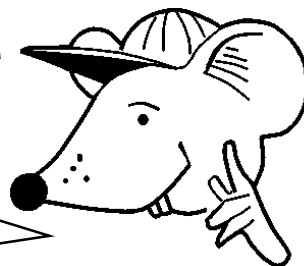
7. 43, 69, 27, 63

8. 56, 38, 73, 20

For example, in question 1 you could have any four of:

$88 + 45$ ,  $88 + 28$ ,  $88 + 43$ ,  
 $45 + 28$ ,  $45 + 43$ ,  $28 + 43$ ,  
and then they can be reversed  
such as  $45 + 88$  ...

You can use a calculator  
to check your answers.



Now use two numbers at a time to make some subtraction sums.

Make sure the second number is smaller than the first.

9. 33, 94, 12, 77

10. 90, 53, 83, 37

11. 84, 82, 74, 82

12. 83, 28, 21, 84

13. 46, 83, 95, 70

14. 60, 54, 67, 38

15. 83, 73, 37, 52

16. 23, 90, 45, 62

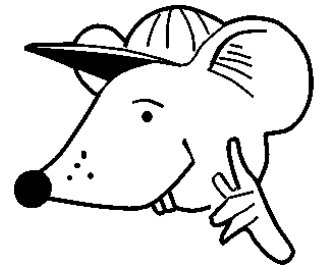
In number 9 you could have  
 $94 - 33$ ,  $33 - 12$ ,  $77 - 33$   
and so on.



Without doing any written working, answer the following questions:

1.  $6 + 13 + 6$
2.  $7 + 8 + 12 + 4$
3.  $3 + 5 + 12$
4.  $8 + 23 + 9 + 1$
5.  $7 + 20 + 5$
6.  $9 + 9 + 5 + 2$
7.  $7 + 4 + 13 + 6$
8.  $9 + 8 + 7$
9.  $5 + 6 + 14$
10.  $9 + 6 + 3$
11.  $6 + 7 + 2$
12.  $9 + 4 + 7$
13.  $6 + 1 + 7 + 1$
14.  $9 + 6 + 5 + 3$
15.  $9 + 5 + 8$
16.  $2 + 5 + 3$
17.  $12 + 6 + 4$
18.  $8 + 4 + 7 + 2$
19.  $22 + 5 + 6$
20.  $7 + 8 + 4$

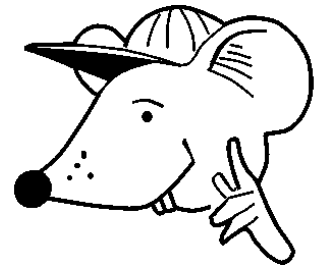
See how quickly you can do these.



Without doing any written working, answer the following questions:

1.  $5 + 20 + 4$
2.  $4 + 6 + 13 + 7$
3.  $8 + 9 + 11 + 10$
4.  $9 + 23 + 2$
5.  $13 + 7 + 2$
6.  $8 + 3 + 6 + 3$
7.  $3 + 6 + 8 + 2$
8.  $7 + 8 + 2$
9.  $7 + 3 + 8$
10.  $3 + 3 + 5 + 5$
11.  $11 + 2 + 8$
12.  $7 + 9 + 0$
13.  $2 + 7 + 6$
14.  $9 + 4 + 4 + 6$
15.  $2 + 12 + 3 + 5$
16.  $18 + 12 + 9$
17.  $13 + 3 + 2 + 4$
18.  $3 + 7 + 3$
19.  $12 + 3 + 10$
20.  $10 + 4 + 7$

See how quickly you can do these.



Without doing any written working, say which numbers go in the boxes:

1.  $3 + \square = 12 + 8$

2.  $9 + 3 + 1 + \square = 20$

3.  $\square + 7 + 2 = 17$

4.  $40 + \square = 100$

5.  $70 + 15 + 30 = \square$

6.  $78 + \square + 2 = 86$

7.  $23 + 17 + \square = 90$

8.  $30 + 50 + 40 = \square$

9.  $70 + 20 + \square = 110$

10.  $30 + 19 + 2 + 1 = \square$

11.  $20 + 40 + \square = 30 + 70$

12.  $6 + 20 + 14 + 20 = \square$

Work very carefully with these questions. Look for short cuts.



Without doing any written working, say which numbers go in the boxes:

1.  $5 + \square = 8 + 19$

2.  $8 + 5 + 2 + \square = 35$

3.  $\square + 9 + 5 = 24$

4.  $70 + \square = 90 + 30$

5.  $60 + 23 + 10 = \square$

6.  $93 + \square + 7 = 134$

7.  $45 + 15 + \square = 80$

8.  $20 + 10 + 70 = \square$

9.  $40 + 90 + \square = 160$

10.  $40 + 28 + 7 + 2 = \square$

11.  $70 + 20 + \square = 40 + 80$

12.  $7 + 30 + 26 + 30 = \square$

Work very carefully with these questions. Look for short cuts.



Without doing any written working, answer the following questions:

1.  $7 + 2 + 12$
2.  $5 + 6 + 9$
3.  $5 + 4 + 6 + 5$
4.  $5 + 3 + 8 + 6$
5.  $23 + 3 + 8 + 7$
6.  $4 + 9 + 2 + 7$
7.  $8 + 4 + 5 + 1 + 7$
8.  $4 + 6 + 3 + 8$
9.  $9 + 1 + 5 + 6$
10.  $5 + 7 + 2 + 6$
11.  $4 + 5 + 6 + 3$
12.  $8 + 3 + 6 + 1$
13.  $7 + 3 + 2 + 8$
14.  $7 + 5 + 2 + 4$
15.  $8 + 3 + 2 + 7$
16.  $21 + 8 + 3 + 6$
17.  $45 + 4 + 7$
18.  $74 + 5 + 2$
19.  $5 + 76 + 9$
20.  $9 + 5 + 42$

Look for pairs of numbers that add up to 9 or 11 to help you.



Without doing any written working, answer the following questions:

1.  $10 + 1 + 15$
2.  $3 + 8 + 9$
3.  $8 + 5 + 6 + 3$
4.  $2 + 7 + 6 + 5$
5.  $7 + 6 + 2 + 3$
6.  $8 + 4 + 7 + 3$
7.  $1 + 18 + 8 + 11 + 4$
8.  $9 + 4 + 5 + 2$
9.  $2 + 1 + 7 + 10$
10.  $8 + 3 + 9 + 5$
11.  $7 + 3 + 14 + 8$
12.  $9 + 4 + 2 + 7$
13.  $12 + 9 + 1 + 9$
14.  $8 + 1 + 4 + 7$
15.  $6 + 5 + 2 + 9$
16.  $34 + 5 + 5 + 4$
17.  $25 + 6 + 8$
18.  $12 + 9 + 3$
19.  $6 + 35 + 2 + 9$
20.  $6 + 5 + 35 + 6$

Look for pairs of numbers that add up to 9 or 11 to help you.





Without doing any written working, answer the following questions:

1.  $8 + 7 + 8 + 9$
2.  $7 + 8 + 6$
3.  $9 + 8 + 8 + 7$
4.  $5 + 4 + 6 + 5$
5.  $9 + 8 + 7$
6.  $4 + 5 + 6 + 5$
7.  $12 + 11 + 12 + 13$
8.  $10 + 9 + 11 + 10$
9.  $15 + 14 + 15 + 16$
10.  $21 + 19 + 20$
11.  $12 + 11 + 12 + 13 + 5$
12.  $6 + 8 + 8 + 6$
13.  $15 + 14 + 16 + 10$
14.  $10 + 11 + 9 + 10$
15.  $3 + 7 + 3 + 7$
16.  $45 + 10 + 9 + 1$
17.  $7 + 5 + 9$
18.  $5 + 5 + 6$
19.  $8 + 16 + 16 + 24$
20.  $5 + 7 + 5 + 3 + 9$

Look for patterns in the numbers that may help you.

E.g. Number 1 is the same as four eights, so the answer must be 32.

Easy, don't you think?



Without doing any written working, answer the following questions:

1.  $12 + 11 + 10 + 11$
2.  $5 + 7 + 6$
3.  $12 + 11 + 13 + 12$
4.  $9 + 8 + 10 + 9$
5.  $30 + 29 + 31$
6.  $16 + 14 + 16 + 14$
7.  $19 + 20 + 21 + 20$
8.  $49 + 51 + 50 + 50$
9.  $30 + 32 + 28 + 30$
10.  $15 + 14 + 16$
11.  $35 + 34 + 36 + 35$
12.  $13 + 15 + 13 + 15$
13.  $19 + 21 + 21 + 19$
14.  $15 + 15 + 14 + 15$
15.  $20 + 19 + 21 + 21$
16.  $20 + 18 + 22 + 20$
17.  $9 + 8 + 9$
18.  $11 + 12 + 12$
19.  $15 + 16 + 16 + 17$
20.  $4 + 9 + 9 + 9 + 9$

Look for patterns in the numbers that may help you.

E.g. Number 1 is the same as four eights, so the answer must be 44.

Piece of cake!



Cake - who mentioned cake?  
Makes me feel hungry.

## Answers

### Page 3

1.  $22 + 15 = 37$ ,  $37 - 15 = 22$  and  $37 - 22 = 15$
2.  $36 + 47 = 83$ ,  $83 - 47 = 36$  and  $83 - 36 = 47$
3.  $68 + 39 = 107$ ,  $107 - 39 = 68$  and  $107 - 68 = 39$
4.  $16 + 33 = 49$ ,  $49 - 33 = 16$  and  $49 - 16 = 33$
5.  $73 + 19 = 92$ ,  $92 - 19 = 73$  and  $92 - 73 = 19$
6.  $36 + 60 = 96$ ,  $96 - 60 = 36$  and  $96 - 36 = 60$
7.  $89 - 32 = 57$ ,  $32 + 57 = 89$  and  $57 + 32 = 89$
8.  $74 - 56 = 18$ ,  $18 + 56 = 74$  and  $56 + 18 = 74$
9.  $74 - 19 = 55$ ,  $19 + 55 = 74$  and  $55 + 19 = 74$
10.  $112 - 23 = 89$ ,  $23 + 89 = 112$  and  $89 + 23 = 112$
11.  $73 - 57 = 16$ ,  $57 + 16 = 73$  and  $16 + 57 = 73$
12.  $59 - 18 = 41$ ,  $41 + 18 = 59$  and  $18 + 41 = 59$

### Page 4

1.  $22 + 38 = 60$ ,  $60 - 22 = 38$  and  $60 - 38 = 22$
2.  $11 + 93 = 104$ ,  $104 - 11 = 93$  and  $104 - 93 = 11$
3.  $56 + 24 = 80$ ,  $80 - 56 = 24$  and  $80 - 24 = 56$
4.  $22 + 78 = 100$ ,  $100 - 22 = 78$  and  $100 - 78 = 22$
5.  $46 + 64 = 110$ ,  $110 - 46 = 64$  and  $110 - 64 = 46$
6.  $23 + 74 = 97$ ,  $97 - 74 = 23$  and  $97 - 23 = 74$
7.  $60 - 46 = 14$ ,  $46 + 14 = 60$  and  $14 + 46 = 60$
8.  $90 - 36 = 54$ ,  $36 + 54 = 90$  and  $54 + 36 = 90$
9.  $56 - 32 = 24$ ,  $32 + 24 = 56$  and  $24 + 32 = 56$
10.  $38 - 18 = 20$ ,  $18 + 20 = 38$  and  $20 + 18 = 38$
11.  $63 - 47 = 16$ ,  $47 + 16 = 63$  and  $16 + 47 = 63$
12.  $81 - 56 = 25$ ,  $56 + 25 = 81$  and  $25 + 56 = 81$

### Page 5

1.  $52 + 34 = 86$ ,  $34 + 52 = 86$   $86 - 52 = 34$  and  $86 - 34 = 52$
2.  $34 + 26 = 60$ ,  $26 + 34 = 60$   $60 - 34 = 26$  and  $60 - 26 = 34$
3.  $19 + 14 = 33$ ,  $14 + 19 = 33$   $33 - 19 = 14$  and  $33 - 14 = 19$
4.  $52 + 34 = 86$ ,  $34 + 52 = 86$   $86 - 52 = 34$  and  $86 - 34 = 52$
5.  $82 + 17 = 99$ ,  $17 + 82 = 99$   $99 - 82 = 17$  and  $99 - 17 = 82$
6.  $38 + 22 = 60$ ,  $22 + 38 = 60$   $60 - 38 = 22$  and  $60 - 22 = 38$
7.  $93 - 43 = 50$ ,  $93 - 50 = 43$   $43 + 50 = 93$  and  $50 + 43 = 93$
8.  $78 - 35 = 43$ ,  $78 - 43 = 35$   $35 + 43 = 78$  and  $43 + 35 = 78$
9.  $82 - 27 = 55$ ,  $82 - 55 = 27$   $27 + 55 = 82$  and  $55 + 27 = 82$
10.  $57 - 19 = 38$ ,  $57 - 38 = 19$   $19 + 38 = 57$  and  $38 + 19 = 57$
11.  $63 - 16 = 47$ ,  $63 - 47 = 16$   $16 + 47 = 63$  and  $47 + 16 = 63$
12.  $81 - 25 = 56$ ,  $81 - 56 = 25$   $25 + 56 = 81$  and  $56 + 25 = 81$

## **Answers (Contd)**

### **Page 6**

1. $47 + 28 = 75$ ,	$28 + 47 = 75$	$75 - 47 = 28$	and	$75 - 28 = 47$
2. $49 + 12 = 61$ ,	$12 + 49 = 61$	$61 - 49 = 12$	and	$61 - 12 = 49$
3. $63 + 25 = 88$ ,	$25 + 63 = 88$	$88 - 25 = 63$	and	$88 - 63 = 25$
4. $93 + 17 = 110$ ,	$17 + 93 = 110$	$110 - 93 = 17$	and	$110 - 17 = 93$
5. $64 + 16 = 80$ ,	$16 + 64 = 80$	$80 - 64 = 16$	and	$80 - 16 = 64$
6. $48 + 53 = 101$ ,	$53 + 48 = 101$	$101 - 48 = 53$	and	$101 - 53 = 48$
7. $79 - 26 = 53$ ,	$79 - 53 = 26$	$26 + 53 = 79$	and	$53 + 26 = 79$
8. $88 - 45 = 43$ ,	$88 - 43 = 45$	$45 + 43 = 88$	and	$43 + 45 = 88$
9. $70 - 34 = 36$ ,	$70 - 36 = 34$	$34 + 36 = 70$	and	$36 + 34 = 70$
10. $89 - 12 = 77$ ,	$89 - 77 = 12$	$12 + 77 = 89$	and	$77 + 12 = 89$
11. $72 - 43 = 29$ ,	$72 - 29 = 43$	$43 + 29 = 72$	and	$29 + 43 = 72$
12. $74 - 40 = 34$ ,	$74 - 34 = 40$	$40 + 34 = 74$	and	$34 + 40 = 74$

### **Page 7**

1. 34	2. 100	3. 67	4. 73	5. 57	6. 89	7. 100
8. 29	9. 78	10. 100	11. 17	12. 22	13. 74	14. 15
15. 38	16. 17	17. 29	18. 84	19. 37	20. 65	

### **Page 8**

1. 16	2. 85	3. 90	4. 72	5. 14	6. 55	7. 94
8. 80	9. 47	10. 23	11. 53	12. 88	13. 27	14. 98
15. 92	16. 57	17. 38	18. 28	19. 48	20. 38	

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1. 25	2. 31	3. 20	4. 41	5. 32	6. 25	7. 30
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