



# MATHEMATICS



**N.S. Yr. 6 P.45**

**Using known number facts and place value to  
add or subtract pairs of numbers mentally.**

## Equipment

Paper, pencil.

# MathSphere

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### **Concepts**

Children should be familiar with addition and subtraction of three-digit numbers involving multiples of 100. Eg.  $4800 + 3200$  or  $8300 - 5600$

They should also be able to say what needs to be added to a decimal with tenths and hundredths to make the next highest whole number or tenth.

Eg. What needs to be added to 8.45 to make 9 ?

What needs to be added to 6.53 to make 6.6 ?

- |                       |                       |
|-----------------------|-----------------------|
| 1. $3\,400 + 4\,200$  | 21. $8\,500 - 7\,500$ |
| 2. $4\,500 + 3\,800$  | 22. $3\,700 - 1\,500$ |
| 3. $3\,800 + 6\,300$  | 23. $9\,300 - 4\,200$ |
| 4. $8\,300 + 5\,200$  | 24. $5\,700 - 2\,000$ |
| 5. $7\,200 + 9\,100$  | 25. $4\,200 - 3\,800$ |
| 6. $9\,400 + 6\,200$  | 26. $5\,800 - 5\,300$ |
| 7. $5\,500 + 4\,400$  | 27. $6\,300 - 1\,700$ |
| 8. $7\,400 + 7\,200$  | 28. $9\,800 - 6\,800$ |
| 9. $8\,800 + 5\,100$  | 29. $5\,300 - 4\,700$ |
| 10. $6\,200 + 4\,700$ | 30. $3\,800 - 2\,700$ |
| 11. $8\,900 + 2\,300$ | 31. $5\,200 - 3\,600$ |
| 12. $5\,800 + 6\,200$ | 32. $9\,900 - 7\,400$ |
| 13. $6\,400 + 7\,200$ | 33. $5\,400 - 3\,600$ |
| 14. $7\,300 + 6\,300$ | 34. $5\,200 - 2\,400$ |
| 15. $4\,300 + 8\,300$ | 35. $7\,800 - 6\,900$ |
| 16. $8\,200 + 6\,200$ | 36. $4\,400 - 1\,200$ |
| 17. $9\,700 + 9\,200$ | 37. $8\,300 - 4\,700$ |
| 18. $6\,600 + 5\,300$ | 38. $9\,900 - 6\,800$ |
| 19. $4\,800 + 8\,500$ | 39. $8\,200 - 6\,300$ |
| 20. $7\,300 + 2\,300$ | 40. $8\,700 - 1\,200$ |

Notice these are all multiples of 100.

You should be able to do them in your head by concentrating on the other digits.

Good luck!



- |                       |                       |
|-----------------------|-----------------------|
| 1. $7\,400 + 3\,500$  | 21. $5\,600 - 3\,500$ |
| 2. $9\,500 + 1\,300$  | 22. $9\,500 - 6\,800$ |
| 3. $4\,600 + 1\,400$  | 23. $5\,200 - 1\,400$ |
| 4. $8\,300 + 5\,300$  | 24. $6\,700 - 2\,700$ |
| 5. $4\,900 + 4\,300$  | 25. $7\,300 - 4\,400$ |
| 6. $9\,900 + 3\,800$  | 26. $6\,900 - 1\,800$ |
| 7. $4\,600 + 2\,300$  | 27. $4\,700 - 2\,800$ |
| 8. $5\,200 + 6\,200$  | 28. $8\,300 - 2\,700$ |
| 9. $8\,300 + 9\,000$  | 29. $5\,500 - 4\,200$ |
| 10. $6\,200 + 3\,500$ | 30. $7\,200 - 1\,600$ |
| 11. $8\,100 + 4\,100$ | 31. $7\,300 - 4\,500$ |
| 12. $4\,600 + 4\,700$ | 32. $5\,200 - 3\,100$ |
| 13. $9\,200 + 3\,200$ | 33. $5\,800 - 3\,700$ |
| 14. $7\,300 + 1\,900$ | 34. $3\,500 - 3\,400$ |
| 15. $8\,300 + 6\,300$ | 35. $9\,900 - 7\,900$ |
| 16. $6\,800 + 4\,700$ | 36. $1\,200 - 1\,100$ |
| 17. $3\,700 + 2\,500$ | 37. $6\,200 - 5\,800$ |
| 18. $2\,700 + 1\,200$ | 38. $7\,300 - 2\,800$ |
| 19. $8\,400 + 3\,200$ | 39. $8\,300 - 7\,200$ |
| 20. $4\,700 + 4\,300$ | 40. $2\,800 - 1\,900$ |

Here are some more sums involving multiples of a hundred.

Be prepared to explain how you did them (you never know who might ask!)



Happy Maths Rat!!

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

1.  $2\,700 + \square = 3\,500$       16.  $8\,900 - \square = 3\,800$

2.  $6\,700 + \square = 6\,900$       17.  $4\,800 - \square = 1\,700$

3.  $\square + 3\,500 = 6\,400$       18.  $\square - 2\,300 = 3\,500$

4.  $4\,300 + \square = 5\,200$       19.  $5\,900 - \square = 2\,600$

5.  $1\,900 + \square = 2\,700$       20.  $2\,800 - \square = 1\,200$

6.  $8\,300 + \square = 9\,200$       21.  $7\,200 - \square = 6\,300$

7.  $3\,600 + \square = 7\,200$       22.  $2\,100 - \square = 1\,900$

8.  $2\,800 + \square = 3\,900$       23.  $5\,300 - \square = 2\,700$

9.  $4\,800 + \square = 6\,500$       24.  $5\,800 - \square = 3\,900$

10.  $\square + 3\,800 = 4\,900$       25.  $\square - 2\,700 = 4\,100$

11.  $6\,500 + \square = 9\,100$       26.  $7\,300 - \square = 5\,300$

12.  $6\,600 + \square = 9\,200$       27.  $1\,200 - \square = 900$

13.  $5\,300 + \square = 9\,100$       28.  $5\,300 - \square = 1\,900$

14.  $6\,500 + \square = 9\,300$       29.  $4\,200 - \square = 3\,700$

15.  $8\,300 + \square = 9\,200$       30.  $6\,600 - \square = 4\,600$

These blew my  
mind (and my  
face!).

Go carefully,  
guys.



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

1.  $8\,600 + \square = 9\,900$       16.  $7\,600 - \square = 4\,200$

2.  $5\,300 + \square = 6\,700$       17.  $8\,400 - \square = 7\,800$

3.  $\square + 1\,800 = 4\,200$       18.  $\square - 4\,300 = 1\,400$

4.  $6\,100 + \square = 8\,600$       19.  $9\,600 - \square = 6\,700$

5.  $7\,400 + \square = 9\,300$       20.  $5\,200 - \square = 4\,300$

6.  $5\,100 + \square = 7\,400$       21.  $7\,700 - \square = 6\,800$

7.  $8\,200 + \square = 9\,900$       22.  $4\,300 - \square = 2\,700$

8.  $5\,500 + \square = 7\,200$       23.  $8\,500 - \square = 6\,800$

9.  $7\,600 + \square = 8\,700$       24.  $6\,700 - \square = 1\,900$

10.  $\square + 2\,600 = 4\,400$       25.  $\square - 3\,600 = 4\,200$

11.  $4\,300 + \square = 6\,300$       26.  $8\,700 - \square = 2\,800$

12.  $8\,200 + \square = 8\,300$       27.  $4\,300 - \square = 3\,600$

13.  $6\,700 + \square = 8\,700$       28.  $9\,400 - \square = 4\,200$

14.  $8\,400 + \square = 8\,800$       29.  $2\,400 - \square = 1\,700$

15.  $2\,500 + \square = 4\,100$       30.  $7\,700 - \square = 6\,500$

Fly me to the Moon.....



What's that got to do with maths, Multi?

Nothing, but it's a great song, don't you think?

Without doing any written working, give the answers to these questions:

1. What must be added to 6.87 to make 7 ?
2. What must be added to 2.48 to make 3 ?
3. What must be added to 7.84 to make 8 ?
4. What must be added to 5.92 to make 6 ?
5. What must be added to 3.87 to make 4 ?
6. What must be added to 8.73 to make 9 ?
7. What must be added to 9.26 to make 10 ?
8. What must be added to 5.32 to make 6 ?
9. What must be added to 7.77 to make 8 ?

10.  $5.72 + \square = 6$

11.  $5.57 + \square = 6$

12.  $4.27 + \square = 5$

13.  $1.94 + \square = 2$

14.  $5.50 + \square = 6$

15.  $3.60 + \square = 4$

More of those  
decimal sums.

Think carefully about  
what is happening in  
the tenths and  
hundredths columns.



Without doing any written working, give the answers to these questions:

1. What must be added to 8.42 to make 9 ?
2. What must be added to 5.37 to make 6 ?
3. What must be added to 9.41 to make 10 ?
4. What must be added to 5.77 to make 6 ?
5. What must be added to 8.28 to make 9 ?
6. What must be added to 2.41 to make 3 ?
7. What must be added to 5.62 to make 6 ?
8. What must be added to 8.72 to make 9 ?
9. What must be added to 4.89 to make 5 ?
10.  $8.25 + \square = 9$
11.  $7.46 + \square = 8$
12.  $9.33 + \square = 10$
13.  $4.65 + \square = 5$
14.  $4.26 + \square = 5$
15.  $8.62 + \square = 9$

More decimals.

Very important with money and stuff like that!





Without doing any written working, give the answers to these questions:

1. What must be added to 5.47 to make 5.5 ?

2. What must be added to 3.88 to make 3.9 ?

3. What must be added to 3.92 to make 4.0 ?

4. What must be added to 2.87 to make 2.9 ?

5. What must be added to 3.33 to make 3.4 ?

6. What must be added to 7.45 to make 7.5 ?

7. What must be added to 2.65 to make 2.7 ?

8. What must be added to 9.38 to make 9.4 ?

9. What must be added to 8.73 to make 8.8 ?

10.  $4.68 + \square = 4.7$

11.  $1.27 + \square = 1.3$

12.  $3.77 + \square = 3.8$

13.  $4.97 + \square = 5.0$

14.  $3.92 + \square = 4.0$

15.  $2.63 + \square = 2.7$

Tricky sums, these.

Think about the  
digits in the tenths  
and hundredths  
columns.



Without doing any written working, give the answers to these questions:

1. What must be added to 3.22 to make 3.3 ?

2. What must be added to 3.84 to make 3.9 ?

3. What must be added to 1.11 to make 1.2 ?

4. What must be added to 4.33 to make 4.4 ?

5. What must be added to 7.51 to make 7.6 ?

6. What must be added to 8.32 to make 8.4 ?

7. What must be added to 3.26 to make 3.3 ?

8. What must be added to 9.54 to make 9.6 ?

9. What must be added to 1.26 to make 1.3 ?

10.  $7.38 + \square = 7.4$

11.  $2.63 + \square = 2.7$

12.  $8.22 + \square = 8.3$

13.  $4.57 + \square = 4.6$

14.  $6.25 + \square = 6.3$

15.  $9.41 + \square = 9.5$

Nearly there. I can see the end of the module from here!

Well done!



**Answers****Page 3**

1. 7 600    2. 8 300    3. 10 100    4. 13 500    5. 16 300    6. 15 600    7. 9 900  
8. 14 600    9. 13 900    10. 10 900    11. 11 200    12. 12 000    13. 13 600    14. 13 600  
15. 12 600    16. 14 400    17. 18 900    18. 11 900    19. 13 300    20. 9 600    21. 1 000  
22. 2 200    23. 5 100    24. 3 700    25. 400    26. 500    27. 4 600    28. 3 000  
29. 600    30. 1 100    31. 1 600    32. 2 500    33. 1 800    34. 2 800    35. 900  
36. 3 200    37. 3 600    38. 3 100    39. 1 900    40. 7 500

**Page 4**

1. 10 900    2. 10 800    3. 6 000    4. 13 600    5. 9 200    6. 13 700    7. 6 900  
8. 11 400    9. 17 300    10. 9 700    11. 12 200    12. 9 300    13. 12 400    14. 9 200  
15. 14 600    16. 11 500    17. 6 200    18. 3 900    19. 11 600    20. 9 000    21. 2 100  
22. 2 700    23. 3 800    24. 4 000    25. 2 900    26. 5 100    27. 1 900    28. 5 600  
29. 1 300    30. 5 600    31. 2 800    32. 2 100    33. 2 100    34. 100    35. 2 000  
36. 100    37. 400    38. 4 500    39. 1 100    40. 900

**Page 5**

1. 800    2. 200    3. 2 900    4. 900    5. 800    6. 900    7. 3 600  
8. 1 100    9. 1 700    10. 1 100    11. 2 600    12. 2 600    13. 3 800    14. 2 800  
15. 900    16. 5 100    17. 3 100    18. 5 800    19. 3 300    20. 1 600    21. 900  
22. 200    23. 2 600    24. 1 900    25. 6 800    26. 2 000    27. 300    28. 3 400  
29. 500    30. 2 000

**Page 6**

1. 1 300    2. 1 400    3. 2 400    4. 2 500    5. 1 900    6. 2 300    7. 1 700  
8. 1 700    9. 1 100    10. 1 800    11. 2 000    12. 100    13. 2 000    14. 400  
15. 1 600    16. 3 400    17. 600    18. 5 700    19. 2 900    20. 900    21. 900  
22. 1 600    23. 1 700    24. 4 800    25. 7 800    26. 5 900    27. 700    28. 5 200  
29. 700    30. 1 200

**Page 7**

1. 0.13    2. 0.52    3. 0.16    4. 0.08    5. 0.13    6. 0.27    7. 0.74  
8. 0.68    9. 0.23    10. 0.28    11. 0.43    12. 0.73    13. 0.06    14. 0.50  
15. 0.40

**Page 8**

1. 0.58    2. 0.63    3. 0.59    4. 0.23    5. 0.72    6. 0.59    7. 0.38  
8. 0.28    9. 0.11    10. 0.75    11. 0.54    12. 0.67    13. 0.35    14. 0.74  
15. 0.38

**Answers (Contd)****Page 9**

**1.** 0.03    **2.** 0.02    **3.** 0.08    **4.** 0.03    **5.** 0.07    **6.** 0.05    **7.** 0.05  
**8.** 0.02    **9.** 0.07    **10.** 0.02    **11.** 0.03    **12.** 0.03    **13.** 0.03    **14.** 0.08  
**15.** 0.07

**Page 10**

**1.** 0.08    **2.** 0.06    **3.** 0.09    **4.** 0.07    **5.** 0.09    **6.** 0.08    **7.** 0.04  
**8.** 0.06    **9.** 0.04    **10.** 0.02    **11.** 0.07    **12.** 0.08    **13.** 0.03    **14.** 0.05  
**15.** 0.09