



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

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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