

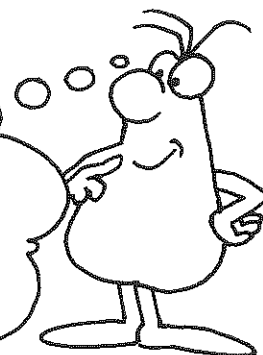
When you add with pencil and paper, you usually start at the **right** and work toward the left.

To add in your head, try starting at the **left**.

THINK ...

$$48 + 27$$

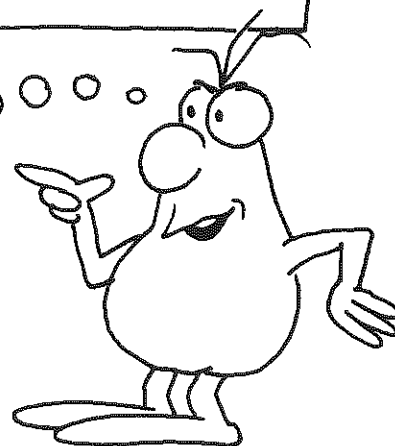
40 plus 20 is 60,
and 8 plus 7 is 15 ...
60 plus 15 is 75.



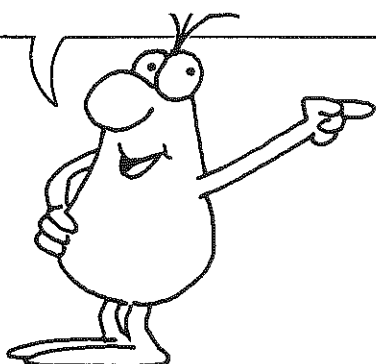
Try this one from the left.

$$55 + 28$$

50 + 20 is 70 ...
5 + 8 is 13 ...
70 + 13 is 83.



TRY THESE IN YOUR HEAD.
Start at the left and add.



1. $35 + 49$

3. $26 + 47$

7. $55 + 29$

2. $53 + 28$

4. $19 + 37$

8. $44 + 27$

5. $15 + 65$

9. $19 + 63$

6. $47 + 28$

10. $36 + 49$

POWER BUILDER A

- | | |
|-----------------------|-----------------------|
| 1. $28 + 15 =$ _____ | 11. $54 + 28 =$ _____ |
| 2. $47 + 25 =$ _____ | 12. $25 + 18 =$ _____ |
| 3. $18 + 24 =$ _____ | 13. $36 + 45 =$ _____ |
| 4. $65 + 25 =$ _____ | 14. $19 + 65 =$ _____ |
| 5. $53 + 19 =$ _____ | 15. $57 + 26 =$ _____ |
| 6. $45 + 27 =$ _____ | 16. $17 + 35 =$ _____ |
| 7. $38 + 24 =$ _____ | 17. $79 + 18 =$ _____ |
| 8. $43 + 38 =$ _____ | 18. $54 + 29 =$ _____ |
| 9. $15 + 65 =$ _____ | 19. $45 + 36 =$ _____ |
| 10. $29 + 45 =$ _____ | 20. $28 + 27 =$ _____ |

**THINK IT
THROUGH**



If this is not a leap year,
what is the date of the 100th
day of the year?

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POWER BUILDER B

- | | |
|-----------------------|-----------------------|
| 1. $24 + 19 =$ _____ | 11. $35 + 18 =$ _____ |
| 2. $68 + 24 =$ _____ | 12. $17 + 49 =$ _____ |
| 3. $19 + 18 =$ _____ | 13. $45 + 47 =$ _____ |
| 4. $34 + 47 =$ _____ | 14. $37 + 28 =$ _____ |
| 5. $65 + 15 =$ _____ | 15. $16 + 35 =$ _____ |
| 6. $29 + 15 =$ _____ | 16. $69 + 18 =$ _____ |
| 7. $17 + 25 =$ _____ | 17. $15 + 49 =$ _____ |
| 8. $19 + 37 =$ _____ | 18. $23 + 28 =$ _____ |
| 9. $48 + 15 =$ _____ | 19. $35 + 47 =$ _____ |
| 10. $26 + 55 =$ _____ | 20. $26 + 39 =$ _____ |

**THINK IT
THROUGH**



If you think of January 1 as day 1 and
December 31 as day 365 (it is not a
leap year), what day is May 28?

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Subtraction problems come in two styles . . .

THOSE THAT **NEED**
REGROUPING $436 - 28$
 $5227 - 2981$

THOSE THAT **DON'T NEED**
REGROUPING $436 - 23$
 $5227 - 2125$

When they don't need regrouping,
you can start at either end.

AT THE BACK END

$$\begin{array}{r} 5227 \\ - 2125 \\ \hline \end{array}$$

2...0...
1...3...
that's 3102.

AT THE FRONT END

$$\begin{array}{r} 5227 \\ - 2125 \\ \hline \end{array}$$

3...1...
0...2...
3102.

Starting at the front end makes
more sense because then you
don't have to juggle digits.



TRY THESE IN YOUR HEAD.
Start at the front end and subtract.



1. $47 - 26$

2. $84 - 61$

3. $49 - 18$

4. $357 - 135$

5. $846 - 715$

6. $947 - 645$

7. $5647 - 3515$

8. $6892 - 1812$

9. $7368 - 4317$

10. $4807 - 1503$

POWER BUILDER A

- | | |
|------------------------|---------------------------|
| 1. $99 - 35 =$ _____ | 11. $475 - 150 =$ _____ |
| 2. $49 - 17 =$ _____ | 12. $289 - 125 =$ _____ |
| 3. $58 - 24 =$ _____ | 13. $850 - 130 =$ _____ |
| 4. $45 - 20 =$ _____ | 14. $777 - 234 =$ _____ |
| 5. $67 - 33 =$ _____ | 15. $594 - 203 =$ _____ |
| 6. $85 - 71 =$ _____ | 16. $6517 - 2500 =$ _____ |
| 7. $156 - 50 =$ _____ | 17. $8765 - 1234 =$ _____ |
| 8. $348 - 25 =$ _____ | 18. $5029 - 4020 =$ _____ |
| 9. $265 - 54 =$ _____ | 19. $6894 - 333 =$ _____ |
| 10. $893 - 82 =$ _____ | 20. $9876 - 540 =$ _____ |

**THINK IT
THROUGH**



The difference between two numbers is 10.
If the numbers are doubled, what is the
difference between them?

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POWER BUILDER B

- | | |
|------------------------|---------------------------|
| 1. $99 - 54 =$ _____ | 11. $365 - 125 =$ _____ |
| 2. $57 - 14 =$ _____ | 12. $780 - 250 =$ _____ |
| 3. $37 - 23 =$ _____ | 13. $984 - 430 =$ _____ |
| 4. $64 - 30 =$ _____ | 14. $888 - 345 =$ _____ |
| 5. $47 - 22 =$ _____ | 15. $687 - 505 =$ _____ |
| 6. $75 - 24 =$ _____ | 16. $3527 - 1300 =$ _____ |
| 7. $185 - 40 =$ _____ | 17. $6895 - 5050 =$ _____ |
| 8. $275 - 25 =$ _____ | 18. $7533 - 1301 =$ _____ |
| 9. $486 - 75 =$ _____ | 19. $7856 - 250 =$ _____ |
| 10. $575 - 64 =$ _____ | 20. $9999 - 444 =$ _____ |

**THINK IT
THROUGH**



The difference between two numbers is 25.
If the numbers are doubled, what is the
difference between them?

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It's easy to add in your head when both numbers end in 5.

1. Add the tens.
2. Add the ones.
3. Find the total.

$$65 + 25$$

$$60 + 20 = 80$$

$$5 + 5 = 10$$

$$80 + 10 = 90$$

The answer will always end in zero!



Here's a trick to help add numbers in your head . . .

Expand to make them both end in 5 . . . then add what's left over.

$$35 + 48$$

$$35 + 48$$

$$45 + 3$$

$$35 + 45 + 3$$

$$80 + 3 \dots 83$$



TRY THESE IN YOUR HEAD.

Make both numbers end in 5.

1. $46 + 25$

2. $17 + 45$

3. $55 + 27$

4. $46 + 15$

5. $39 + 85$

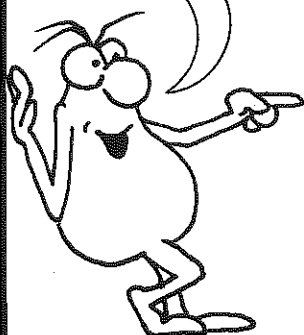
6. $75 + 38$

7. $135 + 26$

8. $145 + 19$

9. $235 + 37$

10. $55 + 38$



POWER BUILDER A

- | | |
|-----------------------|------------------------|
| 1. $26 + 15 =$ _____ | 11. $75 + 76 =$ _____ |
| 2. $45 + 29 =$ _____ | 12. $125 + 26 =$ _____ |
| 3. $58 + 25 =$ _____ | 13. $19 + 165 =$ _____ |
| 4. $66 + 25 =$ _____ | 14. $245 + 56 =$ _____ |
| 5. $47 + 35 =$ _____ | 15. $415 + 77 =$ _____ |
| 6. $75 + 17 =$ _____ | 16. $255 + 49 =$ _____ |
| 7. $95 + 18 =$ _____ | 17. $175 + 77 =$ _____ |
| 8. $88 + 15 =$ _____ | 18. $455 + 26 =$ _____ |
| 9. $36 + 75 =$ _____ | 19. $445 + 57 =$ _____ |
| 10. $65 + 67 =$ _____ | 20. $418 + 55 =$ _____ |

**THINK IT
THROUGH**



If you have 3 quarters and 10 nickels, and you spend 1 quarter and 7 nickels, how much money will you have left?

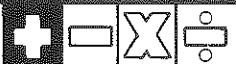
POWER BUILDER B

- | | |
|-----------------------|------------------------|
| 1. $35 + 17 =$ _____ | 11. $78 + 75 =$ _____ |
| 2. $56 + 15 =$ _____ | 12. $175 + 26 =$ _____ |
| 3. $77 + 15 =$ _____ | 13. $17 + 135 =$ _____ |
| 4. $39 + 45 =$ _____ | 14. $65 + 136 =$ _____ |
| 5. $55 + 28 =$ _____ | 15. $75 + 217 =$ _____ |
| 6. $18 + 75 =$ _____ | 16. $265 + 38 =$ _____ |
| 7. $85 + 26 =$ _____ | 17. $175 + 76 =$ _____ |
| 8. $98 + 35 =$ _____ | 18. $29 + 275 =$ _____ |
| 9. $75 + 46 =$ _____ | 19. $525 + 77 =$ _____ |
| 10. $57 + 55 =$ _____ | 20. $518 + 35 =$ _____ |

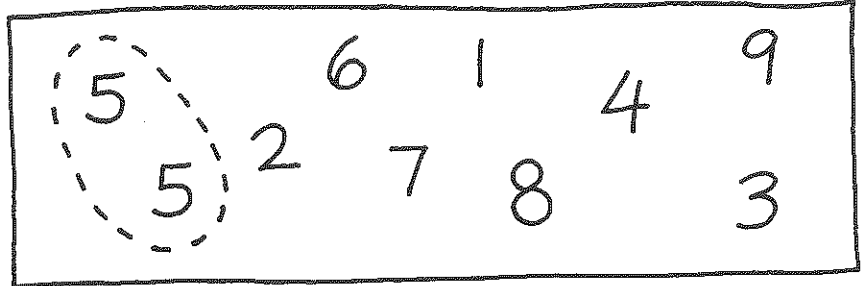
**THINK IT
THROUGH**



If you have 5 quarters and 7 nickels, and you spend 3 nickels, how much money will you have left?



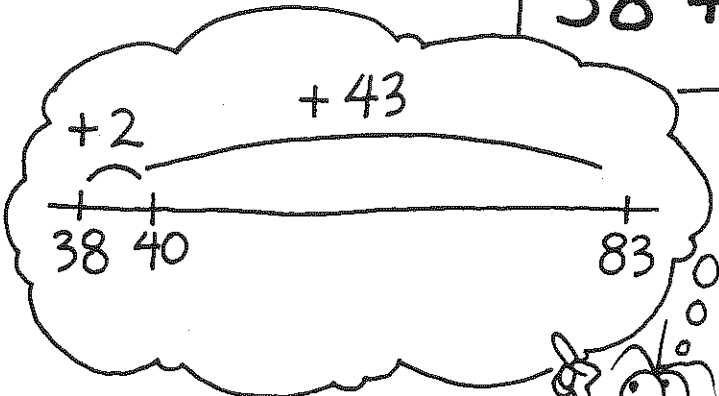
Find the pairs
that total 10.



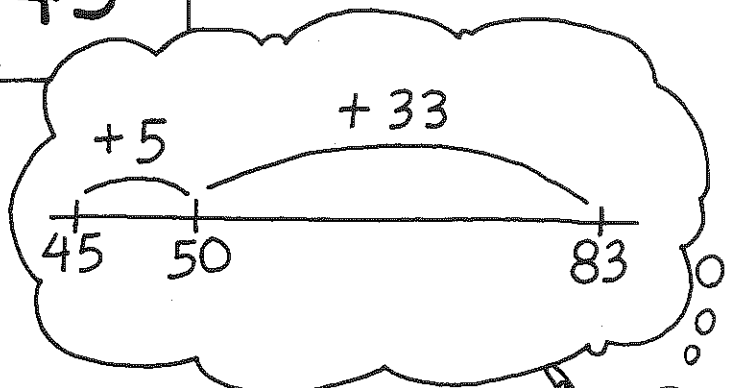
Tens are easy numbers to use.

You can "make tens" to make
mental addition easier. Here's how . . .

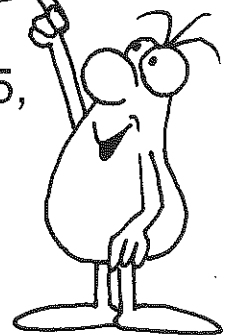
$$38 + 45$$



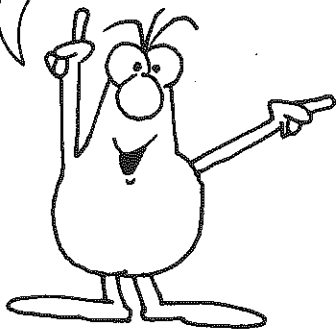
"Make tens" with 38,
then adjust the 45.



Or "make tens" with 45,
then adjust the 38.



TRY THESE IN YOUR HEAD.
Make tens with one number
and adjust the other.



1. $49 + 23$

2. $38 + 36$

3. $47 + 45$

4. $27 + 39$

5. $67 + 24$

6. $38 + 57$

7. $54 + 39$

8. $57 + 26$

9. $28 + 46$

10. $45 + 49$

POWER BUILDER A

- | | |
|-----------------------|-----------------------|
| 1. $49 + 13 =$ _____ | 11. $48 + 49 =$ _____ |
| 2. $28 + 25 =$ _____ | 12. $39 + 47 =$ _____ |
| 3. $39 + 45 =$ _____ | 13. $58 + 18 =$ _____ |
| 4. $59 + 17 =$ _____ | 14. $27 + 49 =$ _____ |
| 5. $58 + 14 =$ _____ | 15. $38 + 39 =$ _____ |
| 6. $15 + 69 =$ _____ | 16. $49 + 27 =$ _____ |
| 7. $24 + 38 =$ _____ | 17. $69 + 18 =$ _____ |
| 8. $35 + 49 =$ _____ | 18. $49 + 16 =$ _____ |
| 9. $43 + 18 =$ _____ | 19. $18 + 79 =$ _____ |
| 10. $25 + 29 =$ _____ | 20. $59 + 36 =$ _____ |

**THINK IT
THROUGH**



Find the sum of the first ten even numbers (counting 0 as the first number). Look for a shortcut.

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POWER BUILDER B

- | | |
|-----------------------|-----------------------|
| 1. $48 + 14 =$ _____ | 11. $39 + 38 =$ _____ |
| 2. $39 + 25 =$ _____ | 12. $47 + 29 =$ _____ |
| 3. $29 + 33 =$ _____ | 13. $19 + 65 =$ _____ |
| 4. $78 + 16 =$ _____ | 14. $54 + 29 =$ _____ |
| 5. $58 + 15 =$ _____ | 15. $49 + 47 =$ _____ |
| 6. $16 + 78 =$ _____ | 16. $38 + 46 =$ _____ |
| 7. $25 + 39 =$ _____ | 17. $79 + 18 =$ _____ |
| 8. $14 + 58 =$ _____ | 18. $68 + 29 =$ _____ |
| 9. $26 + 68 =$ _____ | 19. $39 + 47 =$ _____ |
| 10. $23 + 39 =$ _____ | 20. $59 + 28 =$ _____ |

**THINK IT
THROUGH**



Find the sum of the first ten odd numbers. Look for a shortcut.

$$\begin{array}{r} 67 \\ -28 \\ \hline \end{array} \quad \begin{array}{r} 69 \\ -30 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ -15 \\ \hline \end{array} \quad \begin{array}{r} 48 \\ -20 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ -40 \\ \hline \end{array} \quad \begin{array}{r} 86 \\ -39 \\ \hline \end{array}$$

Which problem in each pair is easier? Why?

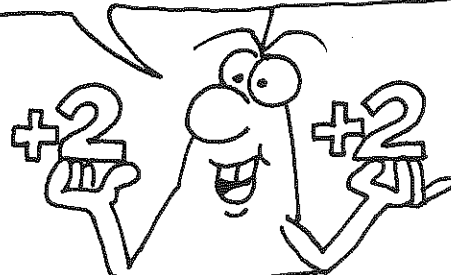
$$\begin{array}{r} 55 \\ -28 \\ \hline \end{array}$$

"Making tens" can help you subtract in your head.

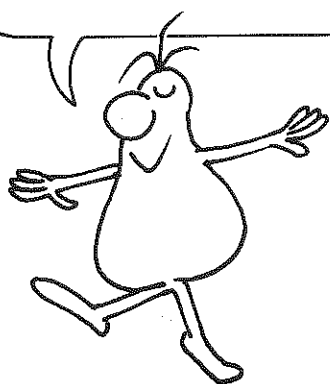
Adding 2 to 28 makes 30. That's easier to subtract. Then I'll adjust 55, too, to balance.

$$\begin{array}{r} 55 + 2 \rightarrow 57 \\ -28 + 2 \rightarrow -30 \\ \hline 27 \end{array}$$

Remember: Adding the same amount to both numbers leaves the difference unchanged!



TRY THESE IN YOUR HEAD.
Make tens and balance.



1. $\begin{array}{r} 83 \\ -28 \\ \hline \end{array}$

3. $\begin{array}{r} 72 \\ -45 \\ \hline \end{array}$

5. $70 - 23$

8. $82 - 37$

6. $65 - 48$

9. $75 - 27$

2. $\begin{array}{r} 54 \\ -39 \\ \hline \end{array}$

4. $\begin{array}{r} 81 \\ -54 \\ \hline \end{array}$

7. $90 - 36$

10. $93 - 39$

POWER BUILDER A

- | | |
|-----------------------|-----------------------|
| 1. $53 - 28 =$ _____ | 11. $83 - 25 =$ _____ |
| 2. $44 - 19 =$ _____ | 12. $46 - 29 =$ _____ |
| 3. $71 - 35 =$ _____ | 13. $71 - 38 =$ _____ |
| 4. $85 - 29 =$ _____ | 14. $82 - 26 =$ _____ |
| 5. $50 - 28 =$ _____ | 15. $66 - 18 =$ _____ |
| 6. $45 - 17 =$ _____ | 16. $80 - 29 =$ _____ |
| 7. $81 - 39 =$ _____ | 17. $46 - 18 =$ _____ |
| 8. $56 - 37 =$ _____ | 18. $94 - 49 =$ _____ |
| 9. $37 - 16 =$ _____ | 19. $90 - 65 =$ _____ |
| 10. $42 - 28 =$ _____ | 20. $73 - 56 =$ _____ |

THINK IT THROUGH



Subtract the largest two-digit even number from the largest three-digit even number.

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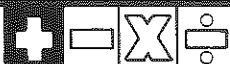
POWER BUILDER B

- | | |
|-----------------------|-----------------------|
| 1. $52 - 19 =$ _____ | 11. $93 - 15 =$ _____ |
| 2. $83 - 28 =$ _____ | 12. $66 - 39 =$ _____ |
| 3. $44 - 26 =$ _____ | 13. $81 - 48 =$ _____ |
| 4. $55 - 17 =$ _____ | 14. $92 - 35 =$ _____ |
| 5. $70 - 27 =$ _____ | 15. $76 - 47 =$ _____ |
| 6. $51 - 29 =$ _____ | 16. $70 - 28 =$ _____ |
| 7. $62 - 38 =$ _____ | 17. $36 - 19 =$ _____ |
| 8. $71 - 19 =$ _____ | 18. $84 - 36 =$ _____ |
| 9. $65 - 28 =$ _____ | 19. $80 - 45 =$ _____ |
| 10. $82 - 66 =$ _____ | 20. $83 - 49 =$ _____ |

THINK IT THROUGH

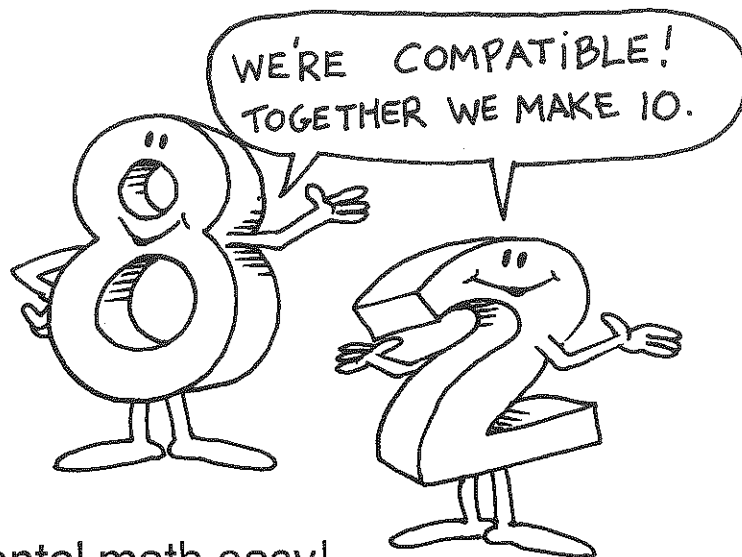


Subtract the smallest three-digit odd number from the smallest four-digit odd number.



Two numbers that total a nice "tidy" sum (like 10, or 100, or 1000) are called **compatible numbers**.

45 and 55 are compatible.
So are 360 and 640.



Compatible numbers make mental math easy!
Learn to recognize them.

Find compatible pairs.

4	60	40	71
56	75	29	30
44	33	12	67
96	70	88	25

Find compatible pairs.

400	300	550	600
510	620	250	100
630	900	700	380
450	750	490	370

TRY THESE. USE YOUR HEAD.

Think about compatible numbers.



1. On scrap paper, list number pairs that total 100. Write as many as you can in one minute. GO!

2. How many different pairs of numbers total 1000?

POWER BUILDER A

- | | |
|-------------------------------------------|---------------------------------------------|
| 1. $35 + \underline{\hspace{2cm}} = 100$ | 11. $400 + \underline{\hspace{2cm}} = 1000$ |
| 2. $94 + \underline{\hspace{2cm}} = 100$ | 12. $250 + \underline{\hspace{2cm}} = 1000$ |
| 3. $31 + \underline{\hspace{2cm}} = 100$ | 13. $950 + \underline{\hspace{2cm}} = 1000$ |
| 4. $46 + \underline{\hspace{2cm}} = 100$ | 14. $899 + \underline{\hspace{2cm}} = 1000$ |
| 5. $25 + \underline{\hspace{2cm}} = 100$ | 15. $375 + \underline{\hspace{2cm}} = 1000$ |
| 6. $100 - 17 = \underline{\hspace{2cm}}$ | 16. $1000 - 501 = \underline{\hspace{2cm}}$ |
| 7. $100 - 53 = \underline{\hspace{2cm}}$ | 17. $1000 - 695 = \underline{\hspace{2cm}}$ |
| 8. $100 - 62 = \underline{\hspace{2cm}}$ | 18. $1000 - 99 = \underline{\hspace{2cm}}$ |
| 9. $100 - 95 = \underline{\hspace{2cm}}$ | 19. $1000 - 725 = \underline{\hspace{2cm}}$ |
| 10. $100 - 39 = \underline{\hspace{2cm}}$ | 20. $1000 - 645 = \underline{\hspace{2cm}}$ |

**THINK IT
THROUGH**



How many different pairs of whole numbers add to 100?

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POWER BUILDER B

- | | |
|-------------------------------------------|---------------------------------------------|
| 1. $50 + \underline{\hspace{2cm}} = 100$ | 11. $700 + \underline{\hspace{2cm}} = 1000$ |
| 2. $93 + \underline{\hspace{2cm}} = 100$ | 12. $975 + \underline{\hspace{2cm}} = 1000$ |
| 3. $49 + \underline{\hspace{2cm}} = 100$ | 13. $499 + \underline{\hspace{2cm}} = 1000$ |
| 4. $15 + \underline{\hspace{2cm}} = 100$ | 14. $450 + \underline{\hspace{2cm}} = 1000$ |
| 5. $33 + \underline{\hspace{2cm}} = 100$ | 15. $95 + \underline{\hspace{2cm}} = 1000$ |
| 6. $100 - 75 = \underline{\hspace{2cm}}$ | 16. $1000 - 125 = \underline{\hspace{2cm}}$ |
| 7. $100 - 8 = \underline{\hspace{2cm}}$ | 17. $1000 - 901 = \underline{\hspace{2cm}}$ |
| 8. $100 - 29 = \underline{\hspace{2cm}}$ | 18. $1000 - 255 = \underline{\hspace{2cm}}$ |
| 9. $100 - 80 = \underline{\hspace{2cm}}$ | 19. $1000 - 650 = \underline{\hspace{2cm}}$ |
| 10. $100 - 42 = \underline{\hspace{2cm}}$ | 20. $1000 - 575 = \underline{\hspace{2cm}}$ |

**THINK IT
THROUGH**



How many different pairs of **even** whole numbers add to 100?

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When you add compatible numbers, you get a "tidy" sum that is easy to use in your head.

75	SUM	140	SUM	380	SUM
125	200	160	300	120	500

All the examples above are compatible pairs.

$125 + 75$

$19 + 31$

$134 + 23$

$43 + 7$

$72 + 16$

$280 + 20$

$405 + 27$

$78 + 22$

$455 + 45$

$131 + 17$

$82 + 18$

Which of these problems contain compatible numbers?

What are the "tidy" sums?

Ooo



TRY THESE IN YOUR HEAD.

1. Find compatible pairs that total 50.

48 20 39

19 2 37 31

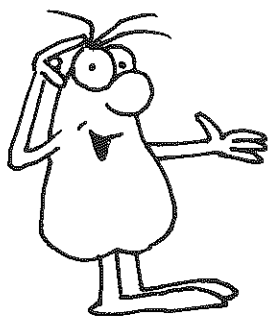
30 13 11

2. Find compatible pairs that total 200.

175 70 95

105 120 145 25

80 55 130



POWER BUILDER A

- | | |
|------------------------|---------------------------|
| 1. $27 + 23 =$ _____ | 11. $21 +$ _____ $= 50$ |
| 2. $41 + 59 =$ _____ | 12. $32 +$ _____ $= 50$ |
| 3. $74 + 26 =$ _____ | 13. $37 +$ _____ $= 100$ |
| 4. $14 + 36 =$ _____ | 14. $48 +$ _____ $= 100$ |
| 5. $237 + 63 =$ _____ | 15. $61 +$ _____ $= 100$ |
| 6. $145 + 55 =$ _____ | 16. $45 +$ _____ $= 200$ |
| 7. $42 + 58 =$ _____ | 17. $134 +$ _____ $= 200$ |
| 8. $134 + 66 =$ _____ | 18. $165 +$ _____ $= 200$ |
| 9. $120 + 380 =$ _____ | 19. $162 +$ _____ $= 300$ |
| 10. $131 + 69 =$ _____ | 20. $198 +$ _____ $= 500$ |

**THINK IT
THROUGH**



Add these numbers:
the largest two-digit number,
the smallest three-digit odd number,
the largest one-digit number, and
the smallest two-digit odd number.
What do you get?

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POWER BUILDER B

- | | |
|------------------------|---------------------------|
| 1. $48 + 52 =$ _____ | 11. $47 +$ _____ $= 50$ |
| 2. $11 + 39 =$ _____ | 12. $38 +$ _____ $= 50$ |
| 3. $65 + 35 =$ _____ | 13. $45 +$ _____ $= 100$ |
| 4. $23 + 27 =$ _____ | 14. $39 +$ _____ $= 100$ |
| 5. $68 + 32 =$ _____ | 15. $73 +$ _____ $= 100$ |
| 6. $91 + 109 =$ _____ | 16. $118 +$ _____ $= 200$ |
| 7. $134 + 166 =$ _____ | 17. $144 +$ _____ $= 200$ |
| 8. $448 + 52 =$ _____ | 18. $139 +$ _____ $= 200$ |
| 9. $119 + 81 =$ _____ | 19. $125 +$ _____ $= 300$ |
| 10. $235 + 65 =$ _____ | 20. $246 +$ _____ $= 500$ |

**THINK IT
THROUGH**



Add these numbers:
the largest odd number less than 60,
the smallest odd number,
the largest one-digit even number, and
the smallest two-digit even number.
What do you get?

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When you have a chain of numbers to add in your head, it's easy if you do it

one
step
at
a
time.

$$\begin{array}{r}
 130 + 50 + 70 + 20 + 50 \\
 \underbrace{ + 70}_{180} + 20 + 50 \\
 \underbrace{ + 20}_{250} + 50 \\
 \underbrace{ + 50}_{270} + 50 \\
 \underbrace{ + 50}_{320}
 \end{array}$$

Here's another trick to make a chain easy to handle:

Look for compatible pairs.

200 plus 100 is 300,
plus 20 is 320.

$$\begin{array}{c}
 \text{200} \\
 \underbrace{} \\
 130 + 50 + 70 + 20 + 50 \\
 \text{Ooo...} \quad \underbrace{}_{100}
 \end{array}$$

TRY THESE IN YOUR HEAD.

Look for compatible pairs.

1. $60 + 75 + 40$

2. $45 + 35 + 15$

3. $60 + 45 + 50 + 5$

4. $35 + 30 + 15 + 70$

5. $20 + 35 + 15 + 80 + 40$

6. $80 + 50 + 20 + 75 + 25$

7. $75 + 60 + 25 + 15 + 40$

8. $15 + 20 + 25 + 35 + 30$

9. $40 + 75 + 50 + 60 + 25$

10. $85 + 65 + 35 + 15 + 75 + 25$

POWER BUILDER A

- | | |
|---------------------------------|---------------------------------|
| 1. $30 + 25 + 20 =$ _____ | 11. $40 + 25 + 10 =$ _____ |
| 2. $40 + 80 + 60 =$ _____ | 12. $70 + 65 + 30 =$ _____ |
| 3. $35 + 15 + 85 =$ _____ | 13. $55 + 45 + 35 =$ _____ |
| 4. $20 + 45 + 80 =$ _____ | 14. $75 + 65 + 25 =$ _____ |
| 5. $65 + 50 + 35 =$ _____ | 15. $85 + 75 + 15 =$ _____ |
| 6. $45 + 55 + 85 + 15 =$ _____ | 16. $45 + 35 + 65 + 25 =$ _____ |
| 7. $25 + 65 + 75 + 10 =$ _____ | 17. $15 + 95 + 85 + 10 =$ _____ |
| 8. $45 + 65 + 55 + 15 =$ _____ | 18. $35 + 65 + 75 + 75 =$ _____ |
| 9. $85 + 25 + 15 + 75 =$ _____ | 19. $45 + 25 + 55 + 50 =$ _____ |
| 10. $65 + 25 + 35 + 70 =$ _____ | 20. $75 + 65 + 35 + 15 =$ _____ |

**THINK IT
THROUGH**



What is the sum of 96, 97, 98, 99, 100, 101, 102, 103, and 104? Look for a shortcut.

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POWER BUILDER B

- | | |
|---------------------------------|---------------------------------|
| 1. $20 + 35 + 15 =$ _____ | 11. $45 + 25 + 55 =$ _____ |
| 2. $70 + 45 + 30 =$ _____ | 12. $65 + 15 + 35 =$ _____ |
| 3. $85 + 15 + 65 =$ _____ | 13. $45 + 55 + 75 =$ _____ |
| 4. $30 + 55 + 70 =$ _____ | 14. $25 + 65 + 35 =$ _____ |
| 5. $15 + 75 + 85 =$ _____ | 15. $75 + 75 + 45 =$ _____ |
| 6. $85 + 15 + 75 + 10 =$ _____ | 16. $55 + 25 + 50 + 45 =$ _____ |
| 7. $35 + 65 + 55 + 45 =$ _____ | 17. $15 + 35 + 55 + 20 =$ _____ |
| 8. $95 + 25 + 75 + 10 =$ _____ | 18. $45 + 35 + 55 + 20 =$ _____ |
| 9. $85 + 45 + 15 + 35 =$ _____ | 19. $45 + 55 + 45 + 15 =$ _____ |
| 10. $45 + 45 + 65 + 35 =$ _____ | 20. $65 + 25 + 35 + 35 =$ _____ |

**THINK IT
THROUGH**



Find the sum of all the whole numbers from 45 to 55 (including both 45 and 55). Be sure to look for a shortcut.

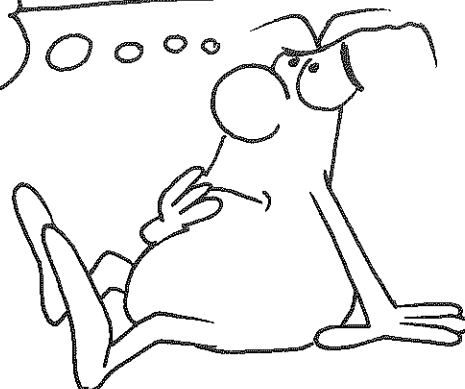
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That looks too hard
to do in my head!

$$25 + 79$$

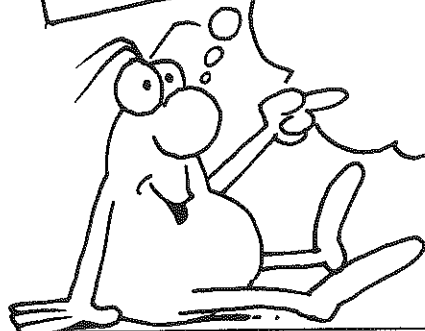
Look for compatible numbers.
If they aren't there . . . make your own!



You can do it by
breaking up one number . . .

$$25 + 79$$

$$\begin{array}{r} 25 + 75 \rightarrow 100 \\ + 4 \\ \hline 104 \end{array}$$



Or you can round up,
then adjust the total.

$$25 + 79$$

$$\begin{array}{r} 25 + 80 \rightarrow 105 \\ - 1 \\ \hline 104 \end{array}$$



TRY THESE IN YOUR HEAD.
Make your own compatible pairs.



1. $75 + 28$

2. $25 + 29$

3. $47 + 150$

4. $25 + 79$

5. $175 + 22$

6. $226 + 75$

7. $148 + 50$

8. $350 + 72$

9. $328 + 25$

10. $235 + 17$

POWER BUILDER A

- | | |
|-----------------------|------------------------|
| 1. $25 + 28 =$ _____ | 11. $25 + 49 =$ _____ |
| 2. $25 + 77 =$ _____ | 12. $58 + 75 =$ _____ |
| 3. $75 + 26 =$ _____ | 13. $149 + 50 =$ _____ |
| 4. $75 + 78 =$ _____ | 14. $275 + 28 =$ _____ |
| 5. $25 + 27 =$ _____ | 15. $29 + 125 =$ _____ |
| 6. $27 + 75 =$ _____ | 16. $58 + 225 =$ _____ |
| 7. $175 + 29 =$ _____ | 17. $98 + 25 =$ _____ |
| 8. $225 + 78 =$ _____ | 18. $197 + 75 =$ _____ |
| 9. $175 + 58 =$ _____ | 19. $75 + 19 =$ _____ |
| 10. $57 + 75 =$ _____ | 20. $225 + 49 =$ _____ |

**THINK IT
THROUGH**



Think of the smallest two-digit odd number.
Double it. Add 18. Subtract 15.
What is the result?

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POWER BUILDER B

- | | |
|------------------------|------------------------|
| 1. $75 + 28 =$ _____ | 11. $25 + 48 =$ _____ |
| 2. $25 + 26 =$ _____ | 12. $75 + 56 =$ _____ |
| 3. $75 + 77 =$ _____ | 13. $375 + 28 =$ _____ |
| 4. $25 + 29 =$ _____ | 14. $147 + 75 =$ _____ |
| 5. $28 + 25 =$ _____ | 15. $125 + 28 =$ _____ |
| 6. $26 + 75 =$ _____ | 16. $98 + 75 =$ _____ |
| 7. $78 + 25 =$ _____ | 17. $199 + 75 =$ _____ |
| 8. $175 + 57 =$ _____ | 18. $23 + 175 =$ _____ |
| 9. $59 + 175 =$ _____ | 19. $49 + 325 =$ _____ |
| 10. $157 + 75 =$ _____ | 20. $78 + 175 =$ _____ |

**THINK IT
THROUGH**



Think of the largest two-digit even number.
Subtract 38. Add 25. Subtract 45. Add 15.
Subtract 55. What is the result?

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