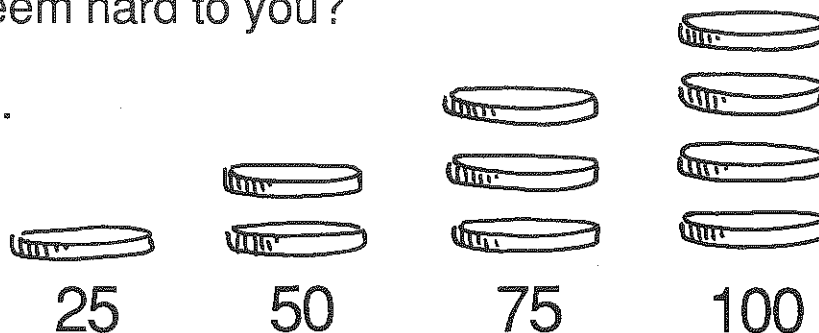


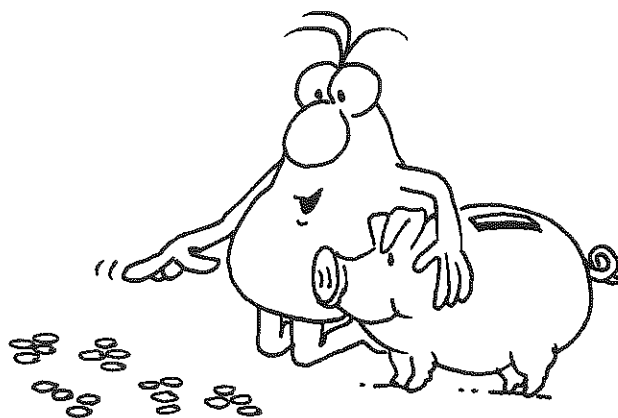
Does counting by 25 seem hard to you?

Try thinking of quarters.



Think of counting out \$5 in quarters.

25	50	75	100
125	150	175	200
225	250	275	300
325	350	375	400
425	450	475	500



What pattern do you see?

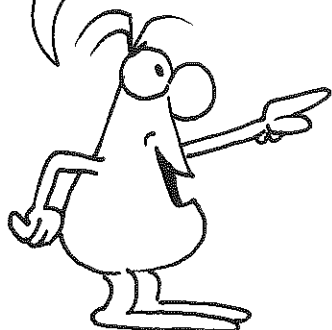
Use that pattern to help you add these in your head.

$125 + 25 + 25 = ?$

$75 + 25 + 50 = ?$

TRY THESE IN YOUR HEAD.

Think quarters.



1. $50 + 25$
2. $150 + 25$
3. $250 + 25$
4. $225 + 25 + 25$
5. $100 + 25 + 25$
6. $350 + 25$
7. $75 + 50$
8. $225 + 50$
9. $250 + 75 + 25$
10. $125 + 25 + 50 + 25$

POWER BUILDER A

- | | |
|-----------------------------|-----------------------------|
| 1. $75 + 25 =$ _____ | 11. $175 + 25 + 25 =$ _____ |
| 2. $50 + 25 =$ _____ | 12. $650 + 25 + 50 =$ _____ |
| 3. $225 + 25 =$ _____ | 13. $400 + 75 + 50 =$ _____ |
| 4. $100 + 25 + 25 =$ _____ | 14. $50 + 75 + 25 =$ _____ |
| 5. $300 + 50 =$ _____ | 15. $250 + 75 + 50 =$ _____ |
| 6. $175 + 25 + 25 =$ _____ | 16. $350 + 75 + 50 =$ _____ |
| 7. $75 + 50 =$ _____ | 17. $425 + 50 + 75 =$ _____ |
| 8. $75 + 25 + 50 =$ _____ | 18. $200 + 75 + 50 =$ _____ |
| 9. $325 + 50 =$ _____ | 19. $325 + 50 + 75 =$ _____ |
| 10. $225 + 25 + 50 =$ _____ | 20. $250 + 75 + 75 =$ _____ |

THINK IT THROUGH



Suppose you had five quarters. Then someone gave you twice as many more. How much money do you have now?

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POWER BUILDER B

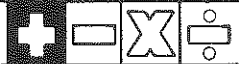
- | | |
|-----------------------------|-----------------------------|
| 1. $150 + 25 =$ _____ | 11. $275 + 50 =$ _____ |
| 2. $75 + 25 =$ _____ | 12. $550 + 25 + 50 =$ _____ |
| 3. $325 + 25 =$ _____ | 13. $200 + 75 + 50 =$ _____ |
| 4. $200 + 50 + 25 =$ _____ | 14. $150 + 75 + 25 =$ _____ |
| 5. $400 + 50 =$ _____ | 15. $250 + 75 + 50 =$ _____ |
| 6. $275 + 25 + 25 =$ _____ | 16. $550 + 75 + 50 =$ _____ |
| 7. $175 + 50 =$ _____ | 17. $825 + 50 + 75 =$ _____ |
| 8. $75 + 25 + 50 =$ _____ | 18. $300 + 50 + 75 =$ _____ |
| 9. $425 + 50 =$ _____ | 19. $625 + 50 + 75 =$ _____ |
| 10. $325 + 25 + 50 =$ _____ | 20. $350 + 75 + 75 =$ _____ |

THINK IT THROUGH



Suppose you had ten quarters. Then someone gave you half as much as you already had. But then you lost one quarter. How much money do you have now?

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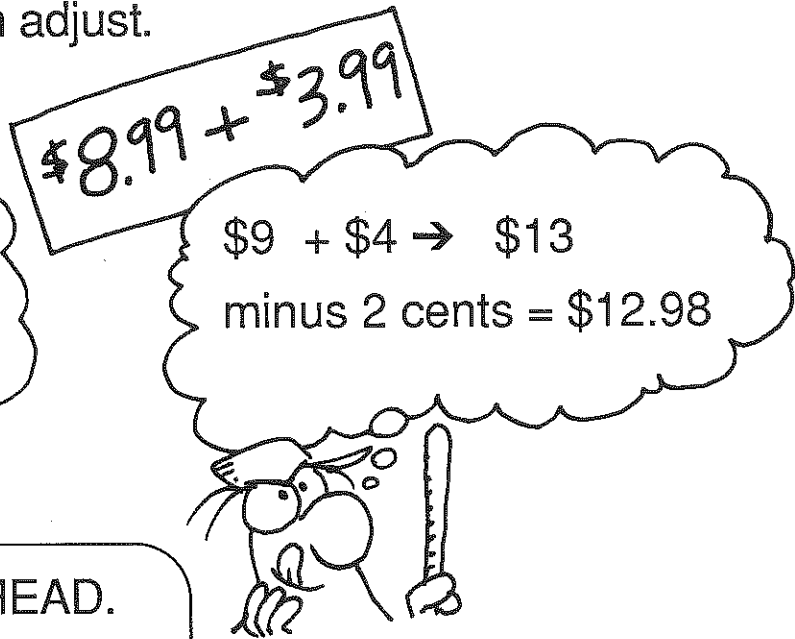
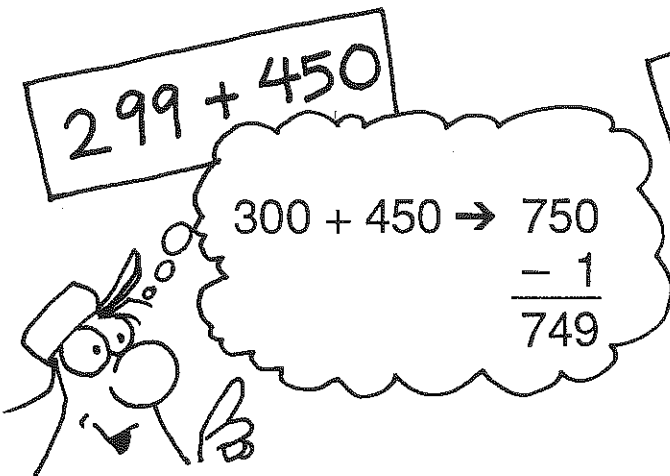
Did you ever wonder why so many prices end in 98 and 99?

Studies show that more people will buy something priced at \$9.99 than at \$10. That's why we see prices like these.



In mental math, you can clean up numbers ending in 8 or 9 to make them easy to add.

Round up ... add ... then adjust.



TRY THESE IN YOUR HEAD.
Clean up the 8's and 9's.

- | | | | |
|--|------------|---------------|-----------------------|
| | 1. 65 + 29 | 3. 254 + 499 | 7. \$2.75 + \$1.99 |
| | 2. 88 + 69 | 4. 478 + 899 | 8. \$11.50 + \$3.99 |
| | | 5. 265 + 98 | 9. \$59.80 + \$8.99 |
| | | 6. 4314 + 898 | 10. \$19.98 + \$25.50 |

POWER BUILDER A

- | | |
|--------------------------|---------------------------------|
| 1. $35 + 29 =$ _____ | 11. $\$3.22 + \$1.99 =$ _____ |
| 2. $54 + 49 =$ _____ | 12. $\$0.75 + \$0.98 =$ _____ |
| 3. $26 + 98 =$ _____ | 13. $\$2.85 + \$1.98 =$ _____ |
| 4. $45 + 39 =$ _____ | 14. $\$15.35 + \$0.98 =$ _____ |
| 5. $56 + 29 =$ _____ | 15. $\$7.45 + \$9.98 =$ _____ |
| 6. $125 + 99 =$ _____ | 16. $\$4.25 + \$1.99 =$ _____ |
| 7. $423 + 498 =$ _____ | 17. $\$0.98 + \$0.65 =$ _____ |
| 8. $807 + 99 =$ _____ | 18. $\$2.35 + \$1.99 =$ _____ |
| 9. $244 + 699 =$ _____ | 19. $\$13.45 + \$10.98 =$ _____ |
| 10. $1524 + 299 =$ _____ | 20. $\$5.98 + \$9.99 =$ _____ |

THINK IT THROUGH



The price of a daily paper at the newsstand is \$0.35 per copy. The regular subscription rate is \$0.24 per copy. How much can you save per week by subscribing rather than buying a paper daily?

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POWER BUILDER B

- | | |
|-------------------------|---------------------------------|
| 1. $25 + 49 =$ _____ | 11. $\$0.26 + \$0.99 =$ _____ |
| 2. $63 + 28 =$ _____ | 12. $\$2.45 + \$1.99 =$ _____ |
| 3. $45 + 98 =$ _____ | 13. $\$0.87 + \$0.98 =$ _____ |
| 4. $154 + 99 =$ _____ | 14. $\$1.45 + \$0.98 =$ _____ |
| 5. $199 + 267 =$ _____ | 15. $\$4.52 + \$4.99 =$ _____ |
| 6. $456 + 399 =$ _____ | 16. $\$15.99 + \$2.65 =$ _____ |
| 7. $2145 + 699 =$ _____ | 17. $\$7.98 + \$9.75 =$ _____ |
| 8. $399 + 198 =$ _____ | 18. $\$5.35 + \$19.99 =$ _____ |
| 9. $4256 + 498 =$ _____ | 19. $\$45.86 + \$29.99 =$ _____ |
| 10. $298 + 275 =$ _____ | 20. $\$7.98 + \$18.75 =$ _____ |

THINK IT THROUGH



The price of a monthly magazine at the newsstand is \$1.75. The subscription rate is \$1.00 per issue. How much can you save in a year by subscribing rather than buying the magazine monthly?

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To add 8's and 9's in your head, you clean them up by rounding to "make tens," then adjust the answer.



$$\$.99 + \$1.99$$

$\$1 + \$2 \rightarrow \$3$
minus 2 cents
or $\$2.98$

Here's good news:

The same idea works for subtraction!

$$75 - 29$$

$75 - 30 \rightarrow 45$
 $+ 1$

 46

$$827 - 198$$

$827 - 200 \rightarrow 627$
 $+ 2$

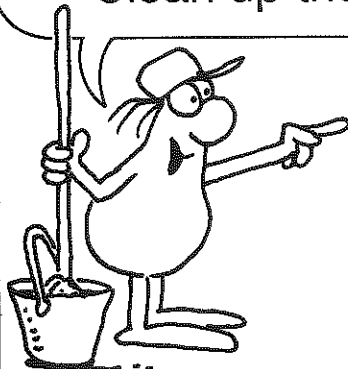
 629

$$\$20 - \$15.98$$

$\$20 - \$16 \rightarrow \$4$
plus 2 cents = $\$4.02$

TRY THESE IN YOUR HEAD.

Clean up the 8's and 9's.



1. $83 - 39$

3. $427 - 198$

7. $\$8.36 - \5.99

2. $95 - 59$

4. $872 - 399$

8. $\$20 - \13.98

5. $265 - 98$

9. $\$40 - \29.99

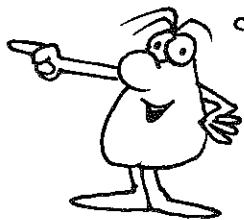
6. $5236 - 999$

10. $\$100 - \59.98

POWER BUILDER A

- | | |
|--------------------------|---------------------------------|
| 1. $82 - 29 =$ _____ | 11. $\$5.00 - \$1.99 =$ _____ |
| 2. $45 - 19 =$ _____ | 12. $\$5.00 - \$0.98 =$ _____ |
| 3. $265 - 98 =$ _____ | 13. $\$5.00 - \$3.99 =$ _____ |
| 4. $74 - 49 =$ _____ | 14. $\$10.00 - \$3.98 =$ _____ |
| 5. $81 - 28 =$ _____ | 15. $\$20.00 - \$9.98 =$ _____ |
| 6. $436 - 189 =$ _____ | 16. $\$20.00 - \$14.99 =$ _____ |
| 7. $724 - 199 =$ _____ | 17. $\$5.00 - \$2.98 =$ _____ |
| 8. $615 - 98 =$ _____ | 18. $\$10.00 - \$4.99 =$ _____ |
| 9. $246 - 198 =$ _____ | 19. $\$50.00 - \$29.99 =$ _____ |
| 10. $1754 - 999 =$ _____ | 20. $\$20.00 - \$4.98 =$ _____ |

THINK IT THROUGH



If you buy a pair of jeans for \$11.99 and a belt for \$5.99, how much change will you get back from \$20.00? (Don't figure any tax.)

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POWER BUILDER B

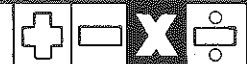
- | | |
|--------------------------|----------------------------------|
| 1. $64 - 29 =$ _____ | 11. $\$0.75 - \$0.59 =$ _____ |
| 2. $83 - 49 =$ _____ | 12. $\$0.50 - \$0.28 =$ _____ |
| 3. $75 - 48 =$ _____ | 13. $\$2.00 - \$0.98 =$ _____ |
| 4. $246 - 199 =$ _____ | 14. $\$10.00 - \$4.98 =$ _____ |
| 5. $435 - 299 =$ _____ | 15. $\$20.00 - \$15.99 =$ _____ |
| 6. $1527 - 999 =$ _____ | 16. $\$100.00 - \$49.99 =$ _____ |
| 7. $752 - 198 =$ _____ | 17. $\$50.00 - \$19.98 =$ _____ |
| 8. $4526 - 998 =$ _____ | 18. $\$20.00 - \$12.98 =$ _____ |
| 9. $1800 - 499 =$ _____ | 19. $\$20.00 - \$8.99 =$ _____ |
| 10. $1750 - 198 =$ _____ | 20. $\$50.00 - \$18.99 =$ _____ |

THINK IT THROUGH



If you buy one T-shirt for \$8.98 and two records at \$4.99 each, how much change will you get back from \$20.00? (Don't figure any tax.)

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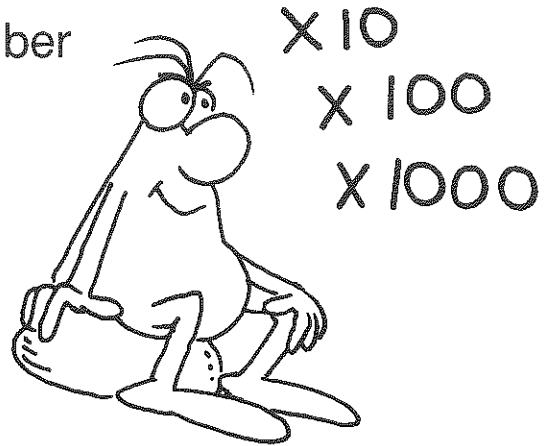
Here's a simple way to multiply any number by 10, or 100, or 1000, in your head.

Look for a pattern in the zeros.

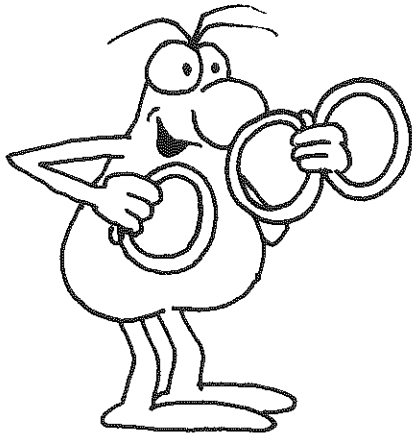
$$5 \times 10 = 5 \text{ tens} = 50$$

$$5 \times 100 = 5 \text{ hundreds} = 500$$

$$5 \times 1000 = 5 \text{ thousands} = 5000$$



To multiply any number . . .



Here's how a mental-math pro thinks . . .

by 10 → tack on ONE trailing zero.
 by 100 → tack on TWO trailing zeros.
 by 1000 → tack on THREE trailing zeros.

$$9 \times 1000$$

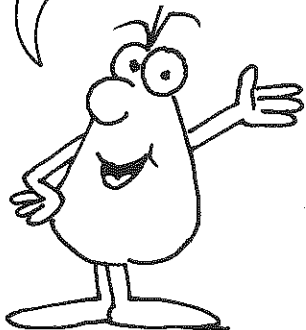
9 thousands . . . so tack on three zeros after the 9.

$$9000$$



TRY THESE IN YOUR HEAD.

Tack on trailing zeros.



- | | | |
|-------------------|---------------------|---------------------|
| 1. 3×10 | 3. 8×1000 | 7. 100×8 |
| 2. 7×100 | 4. 10×13 | 8. 7×1000 |
| | 5. 23×100 | 9. 1000×14 |
| | 6. 1000×11 | 10. 10×162 |

POWER BUILDER A

- | | |
|----------------------------|-------------------------------|
| 1. $2 \times 10 =$ _____ | 11. $11 \times 10 =$ _____ |
| 2. $5 \times 10 =$ _____ | 12. $10 \times 27 =$ _____ |
| 3. $10 \times 7 =$ _____ | 13. $125 \times 10 =$ _____ |
| 4. $4 \times 100 =$ _____ | 14. $23 \times 100 =$ _____ |
| 5. $3 \times 100 =$ _____ | 15. $69 \times 100 =$ _____ |
| 6. $1000 \times 5 =$ _____ | 16. $125 \times 100 =$ _____ |
| 7. $7 \times 1000 =$ _____ | 17. $13 \times 1000 =$ _____ |
| 8. $2 \times 1000 =$ _____ | 18. $1000 \times 18 =$ _____ |
| 9. $8 \times 100 =$ _____ | 19. $275 \times 1000 =$ _____ |
| 10. $10 \times 9 =$ _____ | 20. $1000 \times 51 =$ _____ |

THINK IT THROUGH



If I pay 26 cents for a paper and sell it for 35 cents, how much money will I make selling 100 papers?

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POWER BUILDER B

- | | |
|-----------------------------|-------------------------------|
| 1. $4 \times 10 =$ _____ | 11. $13 \times 10 =$ _____ |
| 2. $6 \times 10 =$ _____ | 12. $19 \times 10 =$ _____ |
| 3. $10 \times 3 =$ _____ | 13. $10 \times 25 =$ _____ |
| 4. $2 \times 100 =$ _____ | 14. $27 \times 100 =$ _____ |
| 5. $6 \times 100 =$ _____ | 15. $100 \times 73 =$ _____ |
| 6. $1000 \times 3 =$ _____ | 16. $375 \times 100 =$ _____ |
| 7. $6 \times 1000 =$ _____ | 17. $19 \times 1000 =$ _____ |
| 8. $4 \times 1000 =$ _____ | 18. $375 \times 1000 =$ _____ |
| 9. $100 \times 7 =$ _____ | 19. $1000 \times 12 =$ _____ |
| 10. $15 \times 100 =$ _____ | 20. $1000 \times 68 =$ _____ |

THINK IT THROUGH



John bought a baseball card for 30 cents and sold it for 45 cents. He then bought it back for 40 cents and sold it again for 50 cents. How much money did he make?

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Here's a trick for multiplying in your head.
Look at the zeros. What's the pattern?

$$5 \times 30 = 5 \times 3 \text{ tens} = 15 \times 10 = 150$$

$$7 \times 400 = 7 \times 4 \text{ hundreds} = 28 \times 100 = 2800$$

$$6 \times 3000 = 6 \times 3 \text{ thousands} = 18 \times 1000 = 18,000$$

When one number has trailing zeros . . .



1. Cut off the trailing zeros.

2. Multiply the remaining numbers.



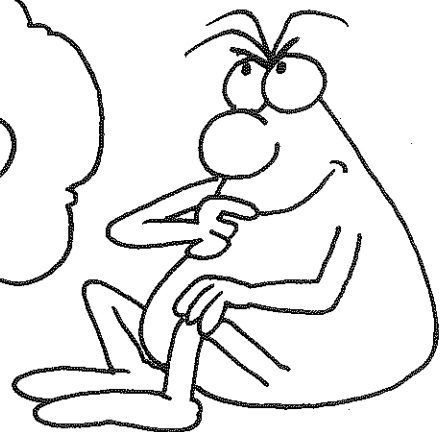
3. Tack the trailing zeros onto your answer.

Here's how a
mental-math
pro thinks . . .

$$9 \times 5000$$

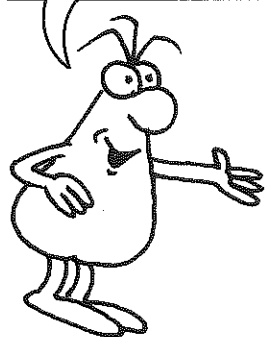
$$9 \times 5 \boxed{000}$$

$$45, \boxed{000}$$



TRY THESE IN YOUR HEAD.

Tack on the right number of zeros.



1. 5×30

3. 8×800

7. 8×70

2. 60×4

4. 9×40

8. 7×700

5. 2×4000

9. 200×13

6. 12×200

10. 3000×8

POWER BUILDER A

- | | |
|-----------------------------|------------------------------|
| 1. $4 \times 80 =$ _____ | 11. $3000 \times 9 =$ _____ |
| 2. $70 \times 7 =$ _____ | 12. $4 \times 2000 =$ _____ |
| 3. $9 \times 90 =$ _____ | 13. $8 \times 3000 =$ _____ |
| 4. $80 \times 3 =$ _____ | 14. $7 \times 7000 =$ _____ |
| 5. $12 \times 30 =$ _____ | 15. $12 \times 4000 =$ _____ |
| 6. $4 \times 500 =$ _____ | 16. $7 \times 6000 =$ _____ |
| 7. $900 \times 5 =$ _____ | 17. $8 \times 90 =$ _____ |
| 8. $800 \times 6 =$ _____ | 18. $500 \times 5 =$ _____ |
| 9. $8 \times 300 =$ _____ | 19. $8 \times 7000 =$ _____ |
| 10. $12 \times 200 =$ _____ | 20. $4 \times 400 =$ _____ |

THINK IT THROUGH

Which are worth more:
40 nickels or 25 dimes?

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POWER BUILDER B

- | | |
|-----------------------------|------------------------------|
| 1. $8 \times 80 =$ _____ | 11. $4000 \times 7 =$ _____ |
| 2. $10 \times 7 =$ _____ | 12. $5 \times 8000 =$ _____ |
| 3. $9 \times 30 =$ _____ | 13. $8 \times 2000 =$ _____ |
| 4. $80 \times 4 =$ _____ | 14. $7 \times 3000 =$ _____ |
| 5. $12 \times 20 =$ _____ | 15. $11 \times 4000 =$ _____ |
| 6. $5 \times 500 =$ _____ | 16. $6 \times 600 =$ _____ |
| 7. $900 \times 2 =$ _____ | 17. $9 \times 60 =$ _____ |
| 8. $800 \times 2 =$ _____ | 18. $4000 \times 5 =$ _____ |
| 9. $3 \times 300 =$ _____ | 19. $7 \times 800 =$ _____ |
| 10. $11 \times 700 =$ _____ | 20. $8 \times 4000 =$ _____ |

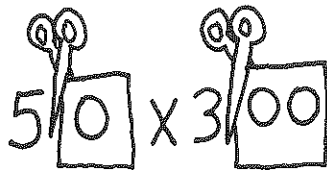
THINK IT THROUGH

Which are worth the most:
35 nickels, 20 dimes, or 7 quarters?

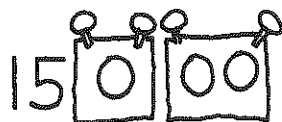
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$$50 \times 300$$



$$5 \times 3 = 15$$



You can multiply this quickly in your head.

Just follow these steps:

- Cut off the trailing zeros.
- Multiply the remaining numbers.
- Collect ALL the zeros and tack them onto your answer.

Here's how a mental-math pro thinks ...

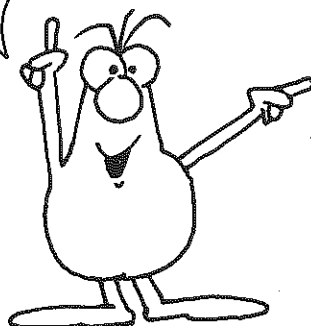
$$400 \times 30$$

$$4 \times 3 = 12$$

$$12,000 \leftarrow$$



TRY THESE IN YOUR HEAD.
Tack on ALL the trailing zeros.



1. 20×50

3. 300×300

7. 50×50

2. 400×90

4. 80×900

8. 70×3000

5. 60×200

9. 60×70

6. 7000×500

10. 120×40

POWER BUILDER A

- | | |
|-----------------------------|-------------------------------|
| 1. $10 \times 10 =$ _____ | 11. $500 \times 500 =$ _____ |
| 2. $20 \times 20 =$ _____ | 12. $300 \times 700 =$ _____ |
| 3. $40 \times 50 =$ _____ | 13. $800 \times 100 =$ _____ |
| 4. $90 \times 90 =$ _____ | 14. $100 \times 100 =$ _____ |
| 5. $60 \times 70 =$ _____ | 15. $900 \times 900 =$ _____ |
| 6. $500 \times 20 =$ _____ | 16. $10 \times 2000 =$ _____ |
| 7. $30 \times 400 =$ _____ | 17. $20 \times 8000 =$ _____ |
| 8. $900 \times 10 =$ _____ | 18. $5000 \times 60 =$ _____ |
| 9. $50 \times 500 =$ _____ | 19. $80 \times 4000 =$ _____ |
| 10. $700 \times 80 =$ _____ | 20. $800 \times 1000 =$ _____ |

THINK IT THROUGH



A pendulum swings 15 times in 30 seconds. How many times will it swing in an hour?

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POWER BUILDER B

- | | |
|-----------------------------|-------------------------------|
| 1. $40 \times 40 =$ _____ | 11. $600 \times 600 =$ _____ |
| 2. $30 \times 20 =$ _____ | 12. $700 \times 300 =$ _____ |
| 3. $40 \times 70 =$ _____ | 13. $500 \times 100 =$ _____ |
| 4. $80 \times 80 =$ _____ | 14. $200 \times 100 =$ _____ |
| 5. $90 \times 70 =$ _____ | 15. $800 \times 800 =$ _____ |
| 6. $200 \times 50 =$ _____ | 16. $20 \times 2000 =$ _____ |
| 7. $40 \times 300 =$ _____ | 17. $80 \times 2000 =$ _____ |
| 8. $800 \times 10 =$ _____ | 18. $6000 \times 50 =$ _____ |
| 9. $30 \times 300 =$ _____ | 19. $40 \times 8000 =$ _____ |
| 10. $800 \times 70 =$ _____ | 20. $700 \times 1000 =$ _____ |

THINK IT THROUGH



My heart beats 20 times in 15 seconds. How many times will it beat in an hour?

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$$\begin{array}{r} 52 \\ \times 7 \\ \hline \end{array}$$

Can you multiply this in your head?

It's easy if you break up one factor into smaller parts. Like this . . .



BREAK UP 52 . . . $52 \rightarrow 50 + 2$

MULTIPLY THE PARTS, STARTING AT THE LEFT . . .

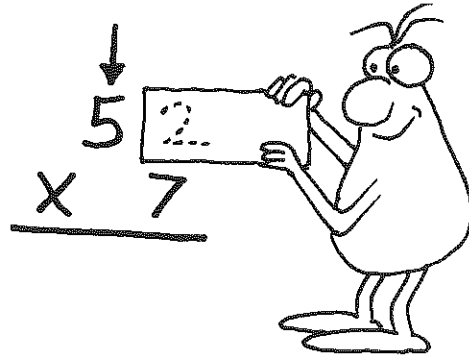
$$\begin{array}{r} \times 7 \\ \hline 350 + 14 = 364 \end{array}$$

ADD . . .

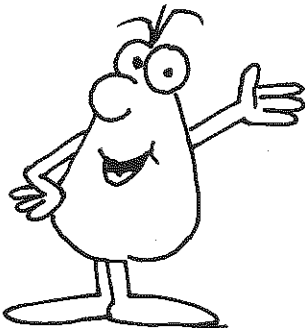
SO . . . $7 \times 52 = 364$

MENTAL MATH TIP

Think of it as multiplying from the left.



TRY THESE IN YOUR HEAD.
Multiply from the left.



- | | | |
|------------------|------------------|--------------------|
| 1. 15×7 | 3. 36×8 | 7. 3×28 |
| 2. 23×5 | 4. 3×54 | 8. 7×27 |
| | 5. 16×8 | 9. 85×50 |
| | 6. 31×4 | 10. 20×28 |

POWER BUILDER A

- | | |
|---------------------------|----------------------------|
| 1. $31 \times 7 =$ _____ | 11. $8 \times 58 =$ _____ |
| 2. $41 \times 3 =$ _____ | 12. $6 \times 66 =$ _____ |
| 3. $4 \times 22 =$ _____ | 13. $4 \times 48 =$ _____ |
| 4. $3 \times 83 =$ _____ | 14. $2 \times 96 =$ _____ |
| 5. $5 \times 51 =$ _____ | 15. $7 \times 77 =$ _____ |
| 6. $6 \times 83 =$ _____ | 16. $2 \times 59 =$ _____ |
| 7. $8 \times 94 =$ _____ | 17. $7 \times 51 =$ _____ |
| 8. $5 \times 58 =$ _____ | 18. $30 \times 41 =$ _____ |
| 9. $2 \times 78 =$ _____ | 19. $25 \times 30 =$ _____ |
| 10. $56 \times 2 =$ _____ | 20. $55 \times 40 =$ _____ |

THINK IT THROUGH



Which two different whole numbers that add to 20 will give the largest product?

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POWER BUILDER B

- | | |
|---------------------------|----------------------------|
| 1. $21 \times 7 =$ _____ | 11. $4 \times 45 =$ _____ |
| 2. $41 \times 2 =$ _____ | 12. $5 \times 55 =$ _____ |
| 3. $3 \times 22 =$ _____ | 13. $5 \times 58 =$ _____ |
| 4. $2 \times 84 =$ _____ | 14. $2 \times 76 =$ _____ |
| 5. $4 \times 51 =$ _____ | 15. $6 \times 96 =$ _____ |
| 6. $6 \times 74 =$ _____ | 16. $2 \times 48 =$ _____ |
| 7. $9 \times 83 =$ _____ | 17. $6 \times 57 =$ _____ |
| 8. $65 \times 5 =$ _____ | 18. $30 \times 52 =$ _____ |
| 9. $87 \times 2 =$ _____ | 19. $20 \times 25 =$ _____ |
| 10. $55 \times 3 =$ _____ | 20. $45 \times 50 =$ _____ |

THINK IT THROUGH



Which two odd numbers that add to 20 will give the smallest product?

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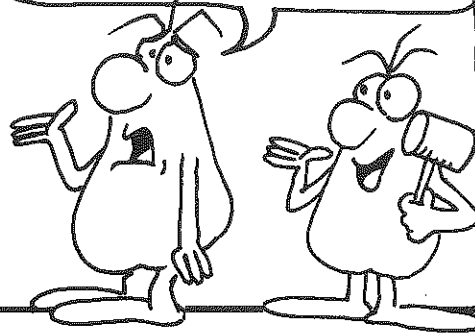


MULTIPLY IN
YOUR HEAD

$$\begin{array}{r} 625 \\ \times 4 \\ \hline \end{array}$$

625? But how can I work with such a large number in my head?

EASY.
Break it up into smaller parts.



Like this . . .

BREAK UP 625 . . . $600 + 25$

MULTIPLY THE PARTS FROM THE LEFT . . .

$$\begin{array}{r} 600 + 25 \\ \times 4 \\ \hline 2400 + 100 = 2500 \end{array}$$

ADD . . .

Now try this one.
How will you break up 423?

$$\begin{array}{r} 423 \\ \times 3 \\ \hline \end{array}$$

TRY THESE IN YOUR HEAD.
Multiply from the left.



1. 8×625

3. 112×8

7. 4×521

2. 4×256

4. 5×125

8. 3×252

5. 525×2

9. 507×8

6. 611×4

10. 7×911

POWER BUILDER A

- | | |
|----------------------------|----------------------------|
| 1. $2 \times 434 =$ _____ | 11. $2 \times 435 =$ _____ |
| 2. $121 \times 5 =$ _____ | 12. $165 \times 5 =$ _____ |
| 3. $4 \times 124 =$ _____ | 13. $188 \times 5 =$ _____ |
| 4. $135 \times 2 =$ _____ | 14. $525 \times 8 =$ _____ |
| 5. $325 \times 3 =$ _____ | 15. $4 \times 256 =$ _____ |
| 6. $7 \times 303 =$ _____ | 16. $123 \times 3 =$ _____ |
| 7. $9 \times 209 =$ _____ | 17. $525 \times 4 =$ _____ |
| 8. $801 \times 6 =$ _____ | 18. $4 \times 625 =$ _____ |
| 9. $505 \times 5 =$ _____ | 19. $5 \times 808 =$ _____ |
| 10. $9 \times 111 =$ _____ | 20. $505 \times 6 =$ _____ |

THINK IT THROUGH



Pick three two-digit numbers. Multiply each number by 101. What pattern do you notice?

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POWER BUILDER B

- | | |
|----------------------------|----------------------------|
| 1. $2 \times 344 =$ _____ | 11. $2 \times 345 =$ _____ |
| 2. $122 \times 5 =$ _____ | 12. $145 \times 5 =$ _____ |
| 3. $4 \times 123 =$ _____ | 13. $166 \times 5 =$ _____ |
| 4. $148 \times 2 =$ _____ | 14. $425 \times 8 =$ _____ |
| 5. $425 \times 3 =$ _____ | 15. $4 \times 255 =$ _____ |
| 6. $404 \times 7 =$ _____ | 16. $3 \times 213 =$ _____ |
| 7. $309 \times 4 =$ _____ | 17. $505 \times 4 =$ _____ |
| 8. $6 \times 801 =$ _____ | 18. $3 \times 423 =$ _____ |
| 9. $5 \times 705 =$ _____ | 19. $235 \times 2 =$ _____ |
| 10. $519 \times 2 =$ _____ | 20. $9 \times 311 =$ _____ |

THINK IT THROUGH



Study these problems: $114 \times 1001 = 114,114$
 $236 \times 1001 = 236,236$
 Use the pattern to multiply these:
 472×1001 203×1001 47×1001



There's an easy way to multiply this in your head.



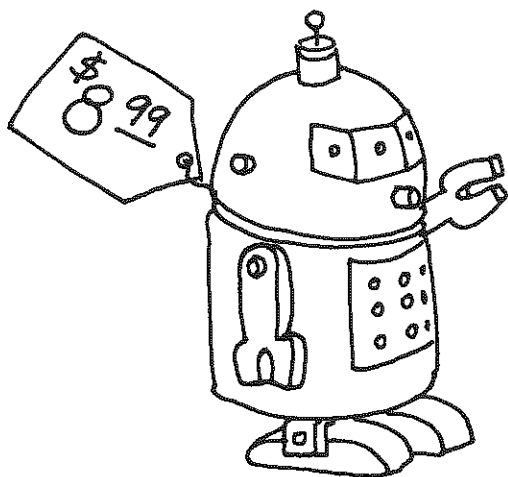
THINK ...

99 is ONE less than 100.

SO ...

6×99 is SIX less than 600.

$$6 \times 99 = 600 - 6 = 594$$



This is a good strategy to use with prices.

At \$8.99 each, what would 6 robots cost?

Figure it out in your head!

TRY THESE IN YOUR HEAD.
Clean up the 9's, then adjust.



1. 8×99

3. 19×6

7. 15 at \$1.99

2. 7×199

4. 29×5

8. 4 at \$0.99

5. 6 at \$4.99

9. 3 at \$2.49

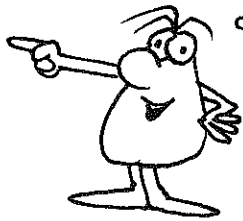
6. 3 at \$1.49

10. 8 at \$3.99

POWER BUILDER A

- | | |
|-----------------------------|--------------------------------|
| 1. $4 \times 79 =$ _____ | 11. $5 \times \$7.99 =$ _____ |
| 2. $8 \times 79 =$ _____ | 12. $2 \times \$39.99 =$ _____ |
| 3. $3 \times 79 =$ _____ | 13. $4 \times \$11.99 =$ _____ |
| 4. $6 \times 79 =$ _____ | 14. $3 \times \$19.99 =$ _____ |
| 5. $2 \times 79 =$ _____ | 15. $7 \times \$7.99 =$ _____ |
| 6. $8 \times 199 =$ _____ | 16. $3 \times \$2.99 =$ _____ |
| 7. $6 \times 399 =$ _____ | 17. $5 \times \$19.99 =$ _____ |
| 8. $5 \times 599 =$ _____ | 18. $4 \times \$1.99 =$ _____ |
| 9. $3 \times 799 =$ _____ | 19. $15 \times \$3.99 =$ _____ |
| 10. $2 \times 1999 =$ _____ | 20. $5 \times \$49.99 =$ _____ |

THINK IT THROUGH



What is the mystery number? Clue: If you subtract the mystery number from 1000, you get a difference that is equal to 3 times 199.

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POWER BUILDER B

- | | |
|-----------------------------|--------------------------------|
| 1. $8 \times 39 =$ _____ | 11. $6 \times \$3.99 =$ _____ |
| 2. $6 \times 59 =$ _____ | 12. $3 \times \$19.99 =$ _____ |
| 3. $4 \times 89 =$ _____ | 13. $2 \times \$59.99 =$ _____ |
| 4. $5 \times 79 =$ _____ | 14. $7 \times \$1.99 =$ _____ |
| 5. $7 \times 29 =$ _____ | 15. $4 \times \$6.99 =$ _____ |
| 6. $8 \times 29 =$ _____ | 16. $6 \times \$1.99 =$ _____ |
| 7. $6 \times 499 =$ _____ | 17. $3 \times \$9.99 =$ _____ |
| 8. $5 \times 699 =$ _____ | 18. $5 \times \$29.99 =$ _____ |
| 9. $3 \times 899 =$ _____ | 19. $2 \times \$17.99 =$ _____ |
| 10. $3 \times 2999 =$ _____ | 20. $25 \times \$1.99 =$ _____ |

THINK IT THROUGH



What is the mystery number? Clue: The mystery number is twice as much as 2 times 49.