1

123
Eyes travel up

×3
Brain thinks

——

369
Pen writes

L   R

Mentally

L ———→ R

$3 \times 100 = 300$

$3 \times 20 = 60$

$3 \times 3 = 9$

+ ——

369

2

123
× 12
——
246
1230
——
1476

Routine:
second row starts in
second place.
(No Explanations!)
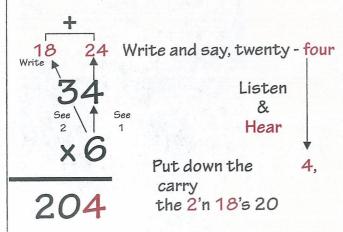
9- Remainder checking method
(Trachtenberg)
• Reduce the number to one digit by
adding its digits.
123 × 12 becomes 6 × 3 = 18
1476   becomes   18 ✓

Shortcut: Ignore nines or combinations of 9
Example:
9 4 6 5 3 2 becomes 29, 11, 2

By mentally eliminating the nines first,
you'll get the answer quicker.

3

Demonstration Exercise

+
18   24   Write and say, twenty - four
Write

34

See   See
2   1

× 6

——

204

Listen
&
Hear

Put down the   4,
carry
the 2'n 18's 20

Eventually all Mentally

Dialogue
Student: "I don't understand!"
Teacher: "Excellent! I only want you to
repeat what I'm saying and
doing until you can do it
yourself."

Friday Morning

21. Invent your own Algorisms
and check them with the
9 - Remainder method.

Friday Afternoon

22. Repeat exercise 19.

Practise makes perfect.

For a while, test yourself at least
once a week in order to
consolidate your knowledge.