

Trachtenberg Multiplication by 11

Twelve questions for independent practice or a short class activity

Name: _____

Date: _____

The rule

Start on the right. Add each digit to its right-hand neighbour.

Write the ones digit and carry when the total is 10 or more.

Worked example: $316 \times 11 = 3,476$.

1. $23 \times 11 =$ _____

7. $472 \times 11 =$ _____

2. $41 \times 11 =$ _____

8. $689 \times 11 =$ _____

3. $67 \times 11 =$ _____

9. $1,205 \times 11 =$ _____

4. $85 \times 11 =$ _____

10. $2,438 \times 11 =$ _____

5. $124 \times 11 =$ _____

11. $5,706 \times 11 =$ _____

6. $316 \times 11 =$ _____

12. $8,419 \times 11 =$ _____

Score: _____ / 12

Time: _____

Next target: _____

Check accuracy first. Use a fresh problem set before trying to work faster.

Answer key

Answers match the worksheet on page 1

1. $23 \times 11 = 253$

2. $41 \times 11 = 451$

3. $67 \times 11 = 737$

4. $85 \times 11 = 935$

5. $124 \times 11 = 1,364$

6. $316 \times 11 = 3,476$

7. $472 \times 11 = 5,192$

8. $689 \times 11 = 7,579$

9. $1,205 \times 11 = 13,255$

10. $2,438 \times 11 = 26,818$

11. $5,706 \times 11 = 62,766$

12. $8,419 \times 11 = 92,609$

Teaching notes

- Ask the learner to say each neighbour sum before writing the answer.
- Compare a two-digit example with a four-digit example.
- When a neighbour sum reaches 10, pause and check where the carry is written.
- Use the online version for a fresh set and immediate answer checking.
- Review the activity for your class and local curriculum before assigning it.

Continue online

Generate another sheet, check answers, or begin the free Trachtenberg introduction lesson:

<https://numdojo.com/trachtenberg-multiplication-by-11-worksheet>