

ANSWERS TO PREVIOUS PUZZLES:

- 5. 3 boys, 5 girls.
- 6. The digits are the same as the chosen multiple of 7. This happens because $7 \times 15\,873 = 111\,111$.

Perplexing Puzzles

Multiple Madness 2

7

Choose any multiple of 13.

e.g. $4 \times 13 = 52$

You can use a calculator to multiply by 8 547.

Repeat for other multiples of 13.

What do you notice?

Why do you think this happens?



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Perplexing Puzzles

Multiple Madness 3

8

- a) Choose any number from 1 to 9.
- b) Use a calculator to multiply this number by 259.
- c) Use a calculator to multiply the answer to (b) by 429.

What do you notice?

Try again with a different number.

Why do you think this happens?



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