

Instructions: set up the Number Popup Gadget

- Close the red EXPANDED NOTATION box.
- Enter **4,871** > **OK** on the keypad



- Click on the 4 (the pink cell) and the 4,000 will pop up.
- Click on the 8 (the green cell) and the 800 will pop up.

- Click on the 7 (the blue cell) and the 70 will pop up.
- Click on the 1 (the yellow cell) and the 1 will pop up.
- **Ask:** What number is made up of 4,000 + 800 + 70 + 1?
- Open the expanded notation box.
- Have students enter the expanded notation for 4,871.
- Repeat the process for the number 9,875.
- Have students enter the expanded notation for 9,875.
- Complete the expanded notation for 9,875.

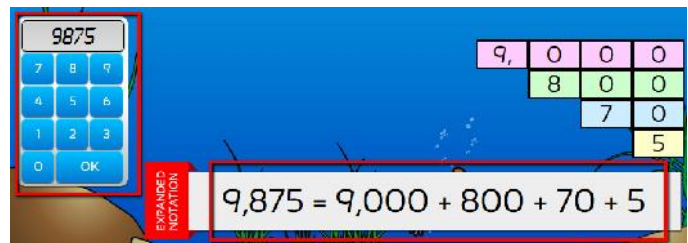

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- Once completed, have the students work back from expanded notation.
- **Ask or write:** What number is made up of $9,000 + 800 + 70 + 5$? (9,875)

- Check using the Number Popup.
- Enter **9875** > **OK**.
- Click on the 9 (the 9,000 will pop up).
- Click on the 8 (the 800 will pop up).
- Click on the 7 (the 70 will pop up).



Ask: Is this the same? (check the EXPANDED NOTATION box)

- Complete the second section of the first worksheet.

Write the number

5) _____ = 5,000 + 600 + 10 + 5

Expand the number using standard notation

$$4,871 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

1) $6,288 = \underline{\hspace{2cm}}$

2) $8,093 = \underline{\hspace{2cm}}$

3) $2,6$

4) $3,8$

Write the

5) $\underline{\hspace{2cm}}$

6) $\underline{\hspace{2cm}} = 9,000 + 70 + 3$

7) $\underline{\hspace{2cm}} = 8,000 + 300 + 40 + 1$

8) $\underline{\hspace{2cm}} = 3,000 + 100 + 2$

9) $\underline{\hspace{2cm}} = 2,000 + 600 + 80$



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ANSWERS

NUMBER POPUP

Expand the number using standard notation

$$4,871 = \underline{4,000 + 800 + 70 + 1}$$

1) $6,288 = \underline{6,000 + 200 + 80 + 8}$

2) $8,093 = \underline{8,000 + 90 + 3}$

3) $2,6$

4) $3,8$

Write the

5) $5,6$



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6) $\underline{9,073} = 9,000 + 70 + 3$

7) $\underline{8,341} = 8,000 + 300 + 40 + 1$

8) $\underline{3,102} = 3,000 + 100 + 2$

9) $\underline{2,680} = 2,000 + 600 + 80$