

Luna's Space Adventure

Name _____

Grade 4 · Adding and subtracting big numbers · 4.NBT.B.4

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Adding

1 $\begin{array}{r} \square\square\square\square \\ 26143 \\ + 41809 \\ \hline \end{array}$

2 $\begin{array}{r} \square\square\square\square \\ 66346 \\ + 9789 \\ \hline \end{array}$

3 $\begin{array}{r} \square\square\square\square \\ 76014 \\ + 8801 \\ \hline \end{array}$

4 $\begin{array}{r} \square\square\square\square \\ 86006 \\ + 6679 \\ \hline \end{array}$

Subtracting

1 $\begin{array}{r} 92070 \\ - 20139 \\ \hline \end{array}$

2 $\begin{array}{r} 56749 \\ - 52209 \\ \hline \end{array}$

3 $\begin{array}{r} 31229 \\ - 13476 \\ \hline \end{array}$

4 $\begin{array}{r} 6705 \\ - 745 \\ \hline \end{array}$

Riddle time Solve each one, then use the code to answer the riddle.

What kind of music do planets like?

1 $7094 + 115 = \square$

2 $9100 - 541 = \square$

3 $9447 + 167 = \square$

4 $9916 - 757 = \square$

5 $7955 - 938 = \square$

6 $7866 - 657 = \square$

7 $9109 - 550 = \square$

8 $8580 - 185 = \square$

4495 = Y 4818 = X 4957 = A 7017 = U 7209 = N

7932 = Z 8395 = S 8559 = E 9159 = T 9614 = P

1

2

3

4

5

6

7

8

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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Adding

$$\begin{array}{r} 1 \quad \boxed{} \boxed{} \boxed{} \boxed{} \\ 26143 \\ + 41809 \\ \hline 67952 \end{array}$$

$$\begin{array}{r} 2 \quad \boxed{} \boxed{} \boxed{} \boxed{} \\ 66346 \\ + 9789 \\ \hline 76135 \end{array}$$

$$\begin{array}{r} 3 \quad \boxed{} \boxed{} \boxed{} \boxed{} \\ 76014 \\ + 8801 \\ \hline 84815 \end{array}$$

$$\begin{array}{r} 4 \quad \boxed{} \boxed{} \boxed{} \boxed{} \\ 86006 \\ + 6679 \\ \hline 92685 \end{array}$$

Subtracting

$$\begin{array}{r} 1 \quad \\ 92070 \\ - 20139 \\ \hline 71931 \end{array}$$

$$\begin{array}{r} 2 \quad \\ 56749 \\ - 52209 \\ \hline 4540 \end{array}$$

$$\begin{array}{r} 3 \quad \\ 31229 \\ - 13476 \\ \hline 17753 \end{array}$$

$$\begin{array}{r} 4 \quad \\ 6705 \\ - 745 \\ \hline 5960 \end{array}$$

Riddle time Solve each one, then use the code to answer the riddle.

What kind of music do planets like?

$$1 \quad 7094 + 115 = \boxed{7209}$$

$$2 \quad 9100 - 541 = \boxed{8559}$$

$$3 \quad 9447 + 167 = \boxed{9614}$$

$$4 \quad 9916 - 757 = \boxed{9159}$$

$$5 \quad 7955 - 938 = \boxed{7017}$$

$$6 \quad 7866 - 657 = \boxed{7209}$$

$$7 \quad 9109 - 550 = \boxed{8559}$$

$$8 \quad 8580 - 185 = \boxed{8395}$$

4495 = Y 4818 = X 4957 = A 7017 = U 7209 = N

7932 = Z 8395 = S 8559 = E 9159 = T 9614 = P

N E P T U N E S
1 2 3 4 5 6 7 8

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GUIDE

① What this sheet practises

Adding and subtracting numbers up to a million in columns, regrouping across as many places as needed.

② A problem from the sheet, worked out

Subtracting

1	2	3	4
$\begin{array}{r} 92070 \\ - 20139 \\ \hline 71931 \end{array}$	$\begin{array}{r} 56749 \\ - 52209 \\ \hline 4540 \end{array}$	$\begin{array}{r} 31229 \\ - 13476 \\ \hline 17753 \end{array}$	$\begin{array}{r} 6705 \\ - 745 \\ \hline 5960 \end{array}$

How: Line the digits up by place, ones under ones. Start at the right. Regroup when a column adds to 10 or more, or when the top digit is smaller. Check by adding back.

③ Words to know

regroup trade 1 of a place for 10 of the next one

sum the answer to +

difference the answer to -

place value what a digit is worth from where it sits

④ Watch for

- Taking the smaller digit from the bigger in every column instead of regrouping.
- Getting stuck regrouping across zeros, as in $50,002 - 1,437$.
- Forgetting the 1 carried into the next column.

⑤ Where it fits

BEFORE

3.NBT.A.2

Add and subtract within 1000.

THIS SHEET

4.NBT.B.4

Add and subtract multi-digit numbers with the standard method.

NEXT

5.NBT.B.7

Add, subtract, multiply and divide decimals to hundredths.

⑥ Helping at home

Check each subtraction by adding the answer to the number taken away. If you get the top number, it's right.