

Luna's Space Adventure

Name _____

Grade 3 • Estimating sums and differences • 3.NOS.D.6

Date _____



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

Round, then estimate Round each number to the nearest 100, then add or subtract.

$$770 - 195 \approx \boxed{} - \boxed{} = \boxed{}$$

$$750 - 275 \approx \boxed{} - \boxed{} = \boxed{}$$

$$283 - 184 \approx \boxed{} - \boxed{} = \boxed{}$$

$$569 + 200 \approx \boxed{} + \boxed{} = \boxed{}$$

$$762 + 197 \approx \boxed{} + \boxed{} = \boxed{}$$

$$729 - 594 \approx \boxed{} - \boxed{} = \boxed{}$$

Does it make sense? Estimate. Is each answer reasonable?

- ① Zed says $181 + 182 = 663$. Is that reasonable?

Estimate:

yes no

- ② Nova says $851 - 371 = 880$. Is that reasonable?

Estimate:

yes no

- ③ Luna says $721 - 236 = 485$. Is that reasonable?

Estimate:

yes no

Is an estimate enough? Estimate to the nearest 100, then circle yes or no.

- ① A box holds 900 space snacks. Orion packs 473 space snacks and Max packs 159 more. Will they all fit?

Estimate:

yes no

- ② Nova has 414 star stickers and gives 344 of them to Orion. Does Nova still have at least 300?

Estimate:

yes no

Luna's Space Adventure

Grade 3 · Estimating sums and differences · 3.NOS.D.6

ANSWER KEY



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

Round, then estimate Round each number to the nearest 100, then add or subtract.

$$770 - 195 \approx 800 - 200 = 600$$

$$750 - 275 \approx 800 - 300 = 500$$

$$283 - 184 \approx 300 - 200 = 100$$

$$569 + 200 \approx 600 + 200 = 800$$

$$762 + 197 \approx 800 + 200 = 1000$$

$$729 - 594 \approx 700 - 600 = 100$$

Does it make sense? Estimate. Is each answer reasonable?

- ① Zed says $181 + 182 = 663$. Is that reasonable?

Estimate: 400 $200 + 200 = 400$

yes ☒ no

- ② Nova says $851 - 371 = 880$. Is that reasonable?

Estimate: 500 $900 - 400 = 500$

yes ☒ no

- ③ Luna says $721 - 236 = 485$. Is that reasonable?

Estimate: 500 $700 - 200 = 500$

☒ yes no

Is an estimate enough? Estimate to the nearest 100, then circle yes or no.

- ① A box holds 900 space snacks. Orion packs 473 space snacks and Max packs 159 more. Will they all fit?

Estimate: 700 $500 + 200 = 700$

☒ yes no

- ② Nova has 414 star stickers and gives 344 of them to Orion. Does Nova still have at least 300?

Estimate: 100 $400 - 300 = 100$

yes ☒ no

Luna's Space Adventure

Grade 3 · Estimating sums and differences · 3.NOS.D.6

GUIDE

1 What this sheet practises

Estimating: rounding to the nearest 10 or 100 to add or subtract in your head. Your child uses estimates to check if an answer makes sense, and to answer when close is enough.

2 A problem from the sheet, worked out

Round, then estimate Round each number to the nearest 100, then add or subtract.

$$770 - 195 \approx \boxed{800} - \boxed{200} = \boxed{600}$$

$$750 - 275 \approx \boxed{800} - \boxed{300} = \boxed{500}$$

$$283 - 184 \approx \boxed{300} - \boxed{200} = \boxed{100}$$

$$569 + 200 \approx \boxed{600} + \boxed{200} = \boxed{800}$$

$$762 + 197 \approx \boxed{800} + \boxed{200} = \boxed{1000}$$

$$729 - 594 \approx \boxed{700} - \boxed{600} = \boxed{100}$$

How: Round each number, then add or subtract the rounded numbers: $392 - 148$ is about $400 - 100 = 300$. An exact answer far from the estimate needs a second look.

3 Words to know

estimate a close answer, not an exact one

round change to the nearest 10 or 100

reasonable close enough to the estimate to make sense

about a word that often means estimate

4 Watch for

- Rounding 148 to 200 by looking at the 8: for hundreds, the tens digit decides.
- Working out the exact answer and skipping the estimate the sheet asks for.
- Calling an answer wrong just because it doesn't equal the estimate: close is reasonable.

5 Where it fits

BEFORE

3.NBT.A.1

Round whole numbers to the nearest 10 or 100.

THIS SHEET

3.NOS.D.6

Estimate sums and differences within 1,000, and know when an estimate is enough.

NEXT

4.OA.A.3

Solve multi-step story problems, including ones with remainders.

6 Helping at home

At the store, round a few prices to the nearest dollar and estimate the total before checkout. Then see how close you got.