# 4th Grade NTI Math Assignments



## **Another Example!**

Find 30.283 + 63.423 + 6.538.

Estimate:

30.000 + 63.000 + 7.000 = 100.000

30,283 The sum is reasonable 63,423 because it is close to the + 6,538 estimate of 100,000.

## 100,244

## Guided Practice





#### Do You Understand?

- 1. MP.3 Construct Arguments When adding 36,424 and 24,482, why is there no regrouping in the final step?
- 2. Science-volunteer teams catalog 7,836 species of insects and 4,922 species of spiders. How many species did the volunteers catalog?

## Do You Know How?

- For 3-6, estimate. Then find each sum.
- 3. 14,926 +3,382
- 4. 423,156 + 571,607
- 5. 3,258

+1,761

38,911

+45,681

6. 82,385 +49,817

# Independent Practice \*

#### For 7-16, estimate. Then find each sum.

11.

8,818

+1,182

+7,412

Use estimation to

check if your answer is reasonable.

10.

5,801

+4,189

# Day One



## **Another Example!**

Find 68,792 - 33,215.

68,7**92** - 33,215

Estimate: — 69,000 — 33,000 = 36,000

33,215 35,577 You can use estimation to check if your answer is reasonable.



# \* Guided Practice





#### Do You Understand?

- MP.3 Construct Arguments In the Convince Me! problem on the previous page, why was the zero in the hundred thousands place not written in the answer?
- The total land area of New Jersey is 19,047 square kilometers. Write and solve an equation to show how to find how much larger Gates of the Arctic is than New Jersey.

## Do You Know How?

For **3–6**, subtract. Use inverse operations to check your differences.

- 3. 139,484 116,691
- 4. 2,164 1,398
- 5. 49,735 25,276
- 6. 281,311 3,427

# Independent Practice

For 7-14, subtract. Use inverse operations to check your differences.

- 7. 82,376 - 47,294
- 8. 653,642 - 562,410
- 9. 9,128 - 3,753
- 10. 42,648 - 8,169

11. 425,637

-86,942

- 12. 8,457 - 1,946
- 13. 215,714 - 176,313
- 14. 85,968

## <u>- 74,084</u>

# Day Two



## Guided Practice





- 1. MP.3 Construct Arguments How would you check if the answer for the ticket problem on the previous page is correct?
- 2. One passenger flew from Oslo to Lima. The flight was 11,033 kilometers. Another passenger flew from Oslo to Los Angeles. The flight was 8,593 kilometers. How many more kilometers was the flight to Lima?

## Do You Know How?

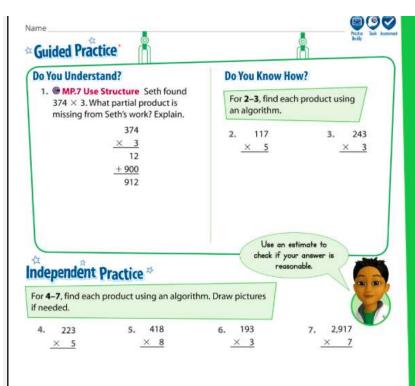
For 3-8, subtract.

- 3. 6,000 4. 231,086 -1,773-172,863
- 5. 76,810 22,645 6. 90,304 51,137
- 7. 101,001 8,915 8. 9,050 3,461

# Independent Practice \*\*

## For 9-24, subtract.

# Day Three



## For 8-11, find each product using an algorithm.

- 8. 6 × 138
- 9. 7 × 226
- 10.8 × 242
- 11.  $5 \times 1,640$

# Day Four



## **Another Example!**

Ms. Stockton ordered 156 T-shirts each week. How many T-shirts did she order in 4 weeks? Find 156  $\times$  4.

The algorithm works with any number of digits.

#### One Way



## **Another Way**

156 Multiply the ones, × 4 then the tens, and then the hundreds. 624 Regroup if needed.

Ms. Stockton ordered 624 T-shirts.



# Guided Practice

624





- 1. Explain how to check if the answer to the Another Example above is reasonable.
- 2. 

  MP.2 Reasoning In the problem below, why is there a 5 recorded in the tens place of the product?

× 4 2,952

738

# Do You Know How?

For 3-10, find each product. Estimate to check if your answer is reasonable.

- 3. 523 × 4
- 4. 378 × 2

- 5. 157 × 5
- 746 × 3
- 7.  $123 \times 9$
- 8. 445 × 5
- 9. 27 × 3
- 10. 204 × 6

## Independent Practice \*

For 11-14, find each product. Estimate to check if your answer is reasonable.

11. 519

12. 28

13. 72 × 5 14. 138

× 5

# Day Five



## □ Guided Practice □



## Do You Understand?

- 1. How is multiplying a 4-digit number like multiplying a 3-digit number?
- 2. @ MP.2 Reasoning Explain when you would not need to regroup any hundreds into thousands when multiplying a 4-digit number by a 1-digit number.

## Do You Know How?

For 3-6, find each product.



## Independent Practice \*\*

Leveled Practice For 7-22, find each product.

# Day Six



## Guided Practice



- 1. A road repair crew can usually fix 825 potholes each week. How many potholes can they fix in 6 weeks?
- 2. MP.3 Construct Arguments A tire shop sells 3 tires that cost \$175 each, which includes a fourth tire for free. Is this more or less expensive than buying 4 tires that cost \$135 each?

#### Do You Know How?

For 3-10, find each product.

- 4. 819 3. 74 × 6
- 5. 4 × 309 6. 3 × 175

× 5

- 7.8 × 218 8.  $6 \times 1.741$
- 9. 29 × 7 10. 1,461 × 9

# Independent Practice

For 11-26, find each product. Estimate to check if your answer is reasonable.

- 11. 77 × 6
- 12. 83 × 5
- 13. 62 × 4
- 14. 89 × 7

- 15. 245 × 3
- 318 16. × 9
- 17. 736 × 2
- 314 18. × 8

- 19.  $4 \times 4.347$
- 20.  $6 \times 2.716$
- 21. 7 × 1.287
- 22. 3 × 1.942

- 23. 2,319 × 5
- 24. 1,467 × 5
- 25.  $2,138 \times 9$
- 26. 9,749 × 5

# Day Seven







#### Do You Understand?

- 1. MP.2 Reasoning Which place do you use to compare the numbers 60,618 and 60,647?
- 2. Morocco has a total area of 442,300 square kilometers. Uzbekistan has a total area of 447,400 square kilometers. Use >, <, or = to compare the two areas.

### Do You Know How?

For 3-7, complete by writing >, =, or < in each .

- 3. 2,643 2,643
- 4. 62,519 64,582
- 5. 218,701 118,692
- 6. 32,467 32,467
- 7. 19,219 1,921

## Independent Practice

For 8–13, complete by writing >, =, or < in each  $\bigcirc$ .

- 8. 22,873 22,774
- 9. 912,706 912,706
- 10. 22,240 2,224

- 11. 999,999 1,000,000
- 12. 68,425 78,425

13. 57,219 6,274

#### For 14-18, write which place to use when comparing the numbers.

14. 394,284 328,234 15. 6,716 6.714

16. 32,916 32,819

17. 12,217

11,246

- 18. 812,497
- 736,881

Remember to compare each place value, starting on the left!



# Day Eight

Nam

## Guided Practice





## Do You Understand?

 MP.3 Construct Arguments Explain how to round a number when 7 is the digit to the right of the rounding place.

A city's population is 421,906. Round

421,906 to the nearest hundred thousand and to the nearest thousand.

#### Do You Know How?

For **3–8**, round each number to the place of the underlined digit.

- 3. 12<u>8</u>,955
  - 2<u>8</u>,955 4. 85,6<u>3</u>9
- 5. <u>9</u>,924
- 6. 194,524
- 7. 160,656
- 8. 149,590

32. 79,945

# Independent Practice

29. 6,321

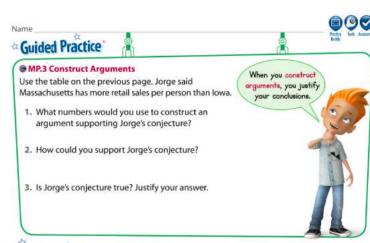
## For 9-32, round each number to the place of the underlined digit.

30. 29,998

9. 4 <u>9</u> 3,295	10. <u>3</u> 9,230	11. 277,292	12. 54 <u>,8</u> 46
13. 4,028	14. <u>6</u> 38,365	15. 45 <u>3</u> ,280	16. 17 <u>,9</u> 09
17. 956,000	18. 55,460	19. 321,679	20. 417,5 <u>4</u> 7
21. 1 <u>1</u> 7,821	22. <u>7</u> 5,254	23. 949,999	24. 66 <u>6</u> ,821
25. <u>2</u> ,420	26. 900,985	27. <u>9</u> ,511	28. 73,0 <u>6</u> 5

31. 61,217

# **Day Nine**



# Independent Practice \*

#### **MP.3 Construct Arguments**

The population of Gerald's city is three hundred thousand, twenty-seven. Gerald wrote the number as 327,000. Emily lives in a city that has a population of three hundred sixteen thousand, forty-two. Gerald concluded that his city's population is greater than the population of Emily's city.

- Does Gerald's explanation make sense? Identify any flaws in Gerald's thinking.
- Construct a math argument that explains why Gerald did not write the population of his city correctly.
- Correct Gerald's argument. Explain how to compare the populations of Gerald's and Emily's cities.

# Day Ten