4th Grade Unit 1: Add & Subtract Whole Numbers (FormA)

Name _____ Date _____

> **Standards:**
>
> **13.NBT.4 add and subtract multi-digit whole numbers fluently using the standard algorithm**
>
> **3.OA.3 solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.**

1. Find the difference of 4,065 and 347.

2. Find the sum of 39,192 and 1,567.

   a. 37,625
   b. 40,659
   c. 40,759
   d. 54,862

3. Solve: $21,504 + 13,878 =$

4. Solve: $67,901 - 48,163 =$

   a. 19,738
   b. 19,748
   c. 19,837
   d. 21,862

5. Find the missing digit:

$$\begin{array}{r} 2\,5,2\,3\,5 \\ +\ 3\square,8\,2\,9 \\ \hline 5\,9,0\,6\,4 \end{array}$$

   $\square =$ _____

6. Find the missing digit:

$$\begin{array}{r} 7\,0,5\,0\,0 \\ -\ 3\square,8\,2\,9 \\ \hline 3\,8,6\,7\,1 \end{array}$$

   $\square =$ _____

7. Estimate the sum of 56,244 and 32,582 to the nearest thousand.

8. A killer whale weighs 1472 kg, the tiger shark weighs 658 kg, and a dolphin weighs much less. Together the three weigh 2,241 kg. Which equation can be used to find the weight of the dolphin?

   a. $2,241 - d = 1,472$
   b. $1,472 + 658 + d = 2,241$
   c. $1,472 - 658 = 2,241 - d$
   d. $1,472 + 658 + 2,241 = d$

9. In 2009 Italy published 11,600 more books than Canada. If Italy published 31,500 books, how many books were published in Canada?

_____ books were published in Canada.

10. Harvey has collected 26,502 marbles. His friend Camryn also collects marbles. Together they have 34,121 marbles. About how many marbles does Camryn have? *Write an equation and solve.*

Camryn has about _____marbles.

11. There were 165,704 straws in the cafeteria. Ms. Moore received a shipment of straws, and now there are 206,622 straws. Which equation can be used to find about how many straws were in the new shipment?

   a. $170,000 + 210,000 = s$
   b. $160,000 + 200,000 = s$
   c. $170,000 + s = 210,000$
   d. $160,000 + s = 200,000$

12. P.J. solved the following math problem:

$$\begin{array}{r} 4\,8{,}0\,0\,8 \\ -\quad 6{,}4\,6\,8 \\ \hline 3\,1{,}5\,4\,0 \end{array}$$

Why is his answer incorrect?

_____
_____
_____
_____

13. 7 hundreds
    5 ten thousands
    13 tens

    Standard form:_____
    Expanded form:_____
    _____
    Word form:_____
    _____
    _____

14. There were 1,163 students at Dyer Elementary in August. Forty-six students moved to other schools during the year. Several new students enrolled, and now there are 1,154 students. How many new students enrolled?

    _____ students

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15. Mrs. Cortez bought a blender (*b*) for $53 and a teapot (*t*) for $16. She paid with a $100 bill. How much change did she get? Choose an expression and solve:
    a. $(b + t) - 100$
    b. $100 - (b + t)$

    _____
    _____
    _____

16. The Atlanta Zoo has 215 monkeys. Thirty-four of the monkeys have new babies and one other monkey has twins. The zoo sells fifty-three of the monkeys to another zoo. How many monkeys are left? Write an expression and solve.

    _____
    _____
    _____

17. Joe solved the following problem.

    $$\begin{array}{r} 8\,4{,}3\,1\,6 \\ -\ 1\,7{,}2\,6\,8 \\ \hline 6\,7{,}0\,3\,8 \end{array}$$

    Why is Joe's answer incorrect?
    a. When he subtracted the ten thousands digits, he made an error in subtraction: $8 - 1$ equals 7 not 6.
    b. When he regrouped from the thousands to the hundreds place, he forgot to change the 4 thousand to 3 thousand.
    c. When he regrouped from the hundreds place to the tens place, he should have changed the zero to 10 tens instead of 9 tens.
    d. When he subtracted the ones digits, he should have subtracted the 6 from the 8 with an answer of 2.

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1. 3718	2. a. 37,625 b. 40,659 c. 40,759 d. 54,862
3. 35,382	4. a. 19,738 b. 19,748 c. 19,837 d. 21,862
5. □ = _3_	6. □ = _1_
7. 89,000	8. a. $2{,}241 - d = 1{,}472$ b. $1{,}472 + 658 + d = 2{,}241$ c. $1{,}472 - 658 = 2{,}241 - d$ d. $1{,}472 + 658 + 2{,}241 = d$
9. 19,900 books were published in Canada.	10. Answers may vary depending on whether students round to the nearest hundred or the nearest thousand. $27{,}000 + c = 34{,}000$ *or* $27{,}500 + c = 34{,}100$ Camryn has about _7,000 or 7,600_ marbles.
11. a. $170{,}000 + 210{,}000 = b$ b. $160{,}000 + 200{,}000 = b$ c. $170{,}000 + b = 210{,}000$ d. $160{,}000 + b = 200{,}000$	12. *Explanations may vary but should include the general idea that P.J. regrouped a ten thousand from the 40,000 to make it a 3 in the ten thousands place, but he didn't need to regroup. He had enough thousands to subtract $7 - 6$.*
13. Standard form: _50,830_ Expanded form: _50,000 + 800 + 30_ Word form: fifty thousand, eight hundred thirty	14. <u>37</u> new students enrolled
15. Choose an expression and solve: a. $(b + t) - 100$ b. $100 - (b + t)$ *Mrs. Cortez received $31 in change.*	16. $215 + 34 + 2 - 53 = m$ *198 monkeys are left at the zoo.*

17. Why is Joe's answer incorrect?
    a. When he subtracted the ten thousands digits, he made an error in subtraction: 8 – 1 equals 7 not 6.
    b. When he regrouped from the thousands to the hundreds place, he forgot to change the 4 thousand to 3 thousand.
    c. When he regrouped from the hundreds place to the tens place, he should have changed the zero to 10 tens instead of 9 tens.
    d. When he subtracted the ones digits, he should have subtracted the 6 from the 8 with an answer of 2.