

2nd Grade

3 Digit Addition and Subtraction

Student Name: _____

Date: _____

Teacher Name: _____

DOK 1 = _____/10

DOK 2 = _____/9

DOK 3 = _____/5

Standards Assessed:

CC. 2. NBT.1, 2, 3, & 7

CC.2. OA.1

What is a DOK question? DOK stands for Depth of Knowledge.

DOK 1 → Basic, routine, automatic math

DOK 2 → Word problems, one to multi-step

DOK 3 → Advanced, critical thinking, multi-step problems; includes justification, explanations, analysis, or synthesis

6.

Count the hundreds, tens, and ones.
Then write the total.



_____ _____ _____ Total _____
Hundreds Tens Ones

5 Points _____
1 for work shown
4 for correct answer
4 OA.1./DOK 2

7. Write the hundreds, tens, and ones. **Expanded form.**
Then write the number name.

252 = _____ + _____ + _____ _____

2 Points _____
1 for correct answer
1 for correct words
DOK 2

8. Compare. Which symbol makes the statement true $>$, $<$, or $=$.
Explain your answer.

461 ○ 416

Explain: _____

2 Points _____
1 for correct answer
1 for explanation
DOK 2

Unit 4 Math Assessment- Equations and Word Problems

Student Name: _____

Date: _____

Teacher Name: _____

DOK 1: _____/11

DOK2: _____/14

DOK3: _____/9

Total Points: _____/34

Standards Assessed:

- 4.NBT.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm.
- 4.NBT.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.
- 4.OA.8 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.

Scoring Rubric:

34-4	26-2
33-3.5	25-2
32-3	24-2
31-3	23-1.5
30-3	22-1.5
29-2.5	21-1.5
28-2.5	20-1
27-2	↓-1

List all factor pairs for the number.

1. 23

2. 54

4.OA.4
DOK1
2 Points
2 Correct answer

Write whether the number is *prime* or *composite*.

3. 49

4. 53

4.OA.4
DOK1
2 Points
2 Correct answer

Tell whether the number is a multiple of 8.

Write *yes* or *no*.

5. 28

6. 72

4.OA.4
DOK1
2 Points
2 Correct answer

Use the rule to find the next 3 terms in the pattern.

7. 4, 8, 16, 32, ...

8. 65, 95, 125, 155, ...

Rule: multiply by 2

Rule: add 30

4.OA.5
DOK1
3 Points
3 Correct answer

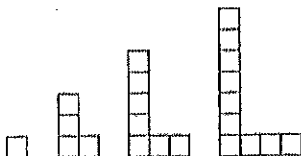
9. 2, 6, 18, 54, ...

Rule: multiply by 3

Describe the next term of the pattern.



11.



4.OA.5
DOK1
2 Points
2 Correct answer

Show your work.

12. A school ordered 688 T-shirts in small, medium, and large sizes. There are 296 small and 268 medium T-shirts. How many T-shirts are large?

4.OA.8
DOK2
3 Points
<input type="checkbox"/> 1 Work shown
<input type="checkbox"/> 1 Equation
<input type="checkbox"/> 1 Correct answer

Solve for \square or n .

13. $(16 + 12) \div (11 - 7) = n$

$n =$ _____

4.NBT.5
DOK2
2 Points
<input type="checkbox"/> 1 Work shown
<input type="checkbox"/> 1 Correct answer

14. $(17 - 9) \cdot 4 = \square \cdot 4$

$\square =$ _____

Write an equation to solve the problem. Then solve.

Show your work.

15. A team of workers is building a 942-foot trail. They plan to complete 6 feet per hour. How many hours will it take to build the trail?

4.MD.2
DOK2
3 Points
<input type="checkbox"/> 1 Work shown
<input type="checkbox"/> 1 Equation
<input type="checkbox"/> 1 Correct answer

16. There are 14 people in line for the carousel. There are 4 times as many people in line for the roller coaster. How many people are in line for the roller coaster?

4.NBT.5
DOK2
3 Points
<input type="checkbox"/> 1 Work shown
<input type="checkbox"/> 1 Equation
<input type="checkbox"/> 1 Correct answer

Write an equation to solve the problem. Then solve.

Show your work.

17. Katie canned 182 quarts of tomatoes last week. She canned 259 quarts of tomatoes this week. How many quarts of tomatoes did Katie can in all?

4.NBT.4
DOK2
3 Points
<input type="checkbox"/> 1 Work shown
<input type="checkbox"/> 1 Equation
<input type="checkbox"/> 1 Correct answer

Name _____

Date _____


Use the picture graph for 22–23. Write an equation to solve the comparison problem. Then solve.
18.


Show your work.

How many fewer dogs were in training class on Monday than on Friday?

4.NBT.4
DOK3
3 Points
_ 1 Work shown
_ 1 Equation
_ 1 Correct answer

Dogs in Training Class

Monday	
Wednesday	
Friday	
Saturday	

 = 3 dogs

19.

How many times as many dogs attended Saturday's class as attended Wednesday's class?

4.NBT.5
DOK3
3 Points
_ 1 Work shown
_ 1 Equation
_ 1 Correct answer

Use an equation to solve.

20. Extended Response A store has 4 bins of planet posters with 23 posters in each bin. It has 3 bins of planet calendars with 26 calendars in each bin. Yesterday, 72 calendars were sold. How many planet posters and calendars are left in all? Explain how you found your answer, and how you know if your answer is reasonable.

4.OA.8
DOK3
3 Points
_ 1 Work shown
_ 1 Correct answer
_ 1 Explanation

