

GED MATHEMATICS CURRICULUM

WHOLE NUMBERS

The student will be able to:

- 1. Perform basic operations with whole numbers: addition, subtraction, multiplication, and division.**
 - Demonstrate an understanding of place value
 - Round whole numbers
 - Read and write large whole numbers
 - Know the multiplication tables or compensation techniques such as generating a times table grid in a short amount of time. Students can not bring tools into the GED Test, but they can generate their own facsimile on scrap paper that is issued.
 - Use a calculator to compute whole number computation
- 2. Apply appropriate strategies for solving whole number word problems.**
 - Read a problem several times
 - Personalize the problem
 - Draw a picture or diagram to help solve the problem
 - Eliminate extraneous information
 - Simplify the problem with easier numbers
 - Use estimation to solve problems and assess the reasonableness of the answer
 - Determine the number of steps and operations needed to solve the problem *(Students will often stop after the first step leading them to choose the wrong answer.)*
 - Determine if the answer makes sense

Recommendations for teaching whole number computation and problem solving:

Introduce new, interesting, and challenging math skills to practice whole number computation and number sense. Try introducing the following skills:

- Finding perimeter (addition)
- Finding area (multiplication and using formulas)
- Finding volume (multiplication)
- Exponents (multiplication and calculator skills)
- Finding square roots (multiplication and calculator skills)
- Order of Operations (add, subtract, multiply, and/or divide, calculator skills)
- Finding mean, median, and mode (addition and division, calculator skills)
- Simple equations/beginning algebra (add, subtract, multiply, and/or divide)
- Lines and angles (beginning geometry)
- Reading and using charts and graphs

Whole Number Essential Vocabulary

Borrow: to regroup from a larger place value in subtraction

Carry: to regroup to a larger place value in addition and multiplication

Difference: the answer to a subtraction problem

Digit: a symbol for a number. The digits are 0,1,2,3,4,5,6,7,8, and 9

Integer: positive or negative whole numbers or zero

Product: the answer to a multiplication problem

Quotient: the answer to a division problem

Remainder: the amount left over when a number doesn't divide evenly

Sum: the answer to an addition problem

Scroll down to find the Student Assessment, Word Problems, and Inventory.

Name _____

Date _____

Whole Number Assessment

Write the place value of each number.

1. 34,3 <u>2</u> 0 <i>tens</i>	2. 32,53 <u>0</u>	3. <u>1</u> ,912	4. 868, <u>4</u> 11
5. <u>1</u> 31,020	6. 25 <u>0</u>	7. <u>6</u> 36	8. <u>1</u> 8,272

Round to the place of the underlined digit.

9. <u>4</u> 8	10. 4 <u>4</u> ,223	11. 2, <u>8</u> 04	12. <u>1</u> ,207
13. <u>4</u> 73	14. <u>7</u> 9,608	15. <u>8</u> 4,965	16. <u>1</u> 0,552

17. $1,054 + 18 + 205 =$	18. $1,088 + 28,124 =$	19. $528 + 6,824 + 95 =$
--------------------------	------------------------	--------------------------

20. $205 - 119 =$	21. $719 - 337 =$	22. $1,279 - 187 =$
23. $8,000 - 348 =$	24. $4,006 - 761 =$	25. $71,004 - 2,526 =$
26. $65 \times 21 =$	27. $360 \times 16 =$	28. $90 \times 325 =$

29. $653 \times 150 =$	30. 22×263	31. $584 \times 521 =$

32. $50 \div 5 =$	33. $242 \div 6 =$	34. $1,330 \div 4 =$
35. $600 \div 15 =$	36. $7,875 \div 7 =$	37. $6,175 \div 25 =$

Solve

1. Each box holds 95 pencils. Your office purchases 12 boxes. How many pencils does your office have ? _____
2. A company paid \$828.00 in overtime pay to 18 different employees. Each employee earned the same amount. How much did each employee earn ? _____
3. Cait needs to travel 600 miles. She has already driven 150 miles. How many miles does Cait have left to travel ? _____
4. Shayne bought a cake for \$10.95 and 4 balloons at \$1.10 each. How much did he spend in all ? _____

WHOLE NUMBER WORD PROBLEMS

1. Cait has driven 908 miles. She needs to drive 1,200 more miles. How many miles will Cait drive in all?
 1. 3,086
 2. 2,108
 3. 292
 4. 2,018
2. Cait needs to drive 870 miles to get home. She has already driven 599 miles. How many more miles does she need to drive?
 1. 1,469
 2. 1,500
 3. 329
 4. 271
3. Jamie bought a used car for \$5,500. She paid a 1,000. down payment. She will pay the balance in 12 equal payments over the year. How much will she pay each month?
 1. \$4,400
 2. \$375
 3. \$458
 4. \$360.
4. Peri needs to work 45 hours this week. She has already worked 8 hours on Monday, 6 hours on Tuesday, and 8 hours on Wednesday. How many more hours does she need to work this week?
 1. 23
 2. 18
 3. 25
 4. 27
5. A whole peach pie has 1200 calories. If 2 friends share one half of the pie, how many calories will each person eat?
 1. 600
 2. 800
 3. 300
 4. 2400
6. There were 8,499 people at the baseball game. Round this number to the nearest thousand. _____

7. Solve. $900 - 15 \times 2 + (18 / 2) =$ _____
8. Cory bought \$85.00 worth of groceries and \$28.00 of gas. He started out with \$150.00 In his wallet. How much does he have left? _____
9. Aggie ordered 10 boxes of pencils. Each box holds 4 dozen pencils. How many pencils will she receive in all?
1. 40
 2. 500
 3. 480
 4. 48
10. Becky's gross pay is \$320.00. \$30.00 was taken out for state taxes and \$15.50 was taken out for social security. What is her net pay?
1. \$35.50
 2. \$365.50
 3. \$45.50
 4. \$274.50
11. 3 friends went out to eat. The bill was \$16.00 and the added tax was \$1.28. They split the cost equally 3 ways. How much did each friend pay?
1. \$17.28
 2. \$5.76
 3. \$5.30
 4. \$8.65
12. A dozen donuts cost \$4.50. Lisa bought 3 dozen donuts and 1 cup of coffee for \$1.89. How much did she spend?
1. \$15.39
 2. \$18.00
 3. \$13.50
 4. \$11.61

Student Inventory Whole Numbers

Name _____ Date _____

*Answer each question below by putting a check mark after Yes or I need more work.
If you check yes, prove it by answering the sample question.*

1. I know place value up to the millions.

In the number 123,056, which number is in the ten-thousands place ? _____

Yes _____ I need more work _____

2. I can round off whole numbers.

Round 12,545 to the nearest thousand. _____

Yes _____ I need more work _____

3. I can read and write large whole numbers.

Write one hundred fifty thousand and sixty six. _____

Yes _____ I need more work _____

4. I can add whole numbers.

$1,025 + 67 + 123 =$ _____

Yes _____ I need more work _____

5. I can subtract whole numbers.

$12,005 - 4,558 =$ _____

Yes _____ I need more work _____

6. I can multiply whole numbers.

$346 \times 124 =$ _____

Yes _____ I need more work _____

7. I can divide whole numbers.

$1,563 \div 15 =$ _____

Yes _____ I need more work _____

8. I can answer one-step word problems.

Yes _____ I need more work _____

9. I can answer multi-step word problems.

Yes _____ I need more work _____