

Grade 5 Mathematics Midterm Review Worksheet

Name: _____ Class: _____

Part I: Place Value and Number Names

- What is the value of the digit 2 in the number 826,519?
a. 200 b. 2,000 c. 20,000 d. 200,000
- Which digit is in the ten thousands place in the number 84,219?
a. 5 b. 8 c. 4 d. 2
- Write the number 654,321 in words:
six hundred fifty-four thousand, three hundred twenty-one
- Write the number 1,234,567 in words:
one million, two hundred thirty-four thousand, five hundred sixty-seven
- Complete the expanded form of the number:
 $375,896 = 300,000 + 70,000 + \underline{5,000} + \underline{800} + 90 + 6$

Part II: Comparing and Ordering Whole Numbers

- Which of the following numbers is the greatest?
a. 200,105 b. 220,005 c. 202,250
- Arrange the numbers in order, beginning with the greatest:
564,789 563,798 564,897 564,978
 $564,978 > 564,897 > 564,789 > 563,798$
- What is the smallest 5-digit odd number that can be formed using the digits 2, 0, 5, 8, 3 without repeating any digit? Answer: 20,853

Part III: Estimation and Rounding

- Round 12,345 to the nearest ten: 12,350
- Round 98,765 to the nearest thousand: 99,000
- Estimate the difference using rounding to the nearest thousand:
 $26,481 - 9,356 \approx \underline{2,6000} - \underline{9,000} = \underline{17,000}$
- Multiply $4,092 \times 6$, then estimate using rounding to check your answer:
a) Actual product: $4,092 \times 6 = \underline{24,552}$
b) Estimated product: $4,000 \times 6 = \underline{24,000}$
- What is the estimated product of 49×81 by rounding each number to the nearest ten?
a. 3,200 b. 4,000 c. 4,500 d. 5,000

Part IV: Properties of Odd and Even Numbers

- Determine whether each sum, difference, or product is "odd" or "even":
a) $258 + 639$ is odd
b) $751 - 203$ is even
c) 183×9 is odd
d) 486×3 is even
- The product of two even numbers is an even (odd/even) number.
- The difference between two numbers is an odd number. One of the numbers is an odd number. The other number is an even (odd/even) number.
- I am an odd number. I am the sum of two numbers A and B. A is an even number. B is an odd (odd/even) number.

Part V: Factors and Divisibility

- Which of the following numbers is a factor of 42?
a. 9 b. 8 c. 7 d. 6
- List all the factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36

20. List all the factors of 100: 1, 2, 4, 5, 10, 20, 25, 50, 100
21. Select all the numbers which have 7 as a factor: 17, 21, 35, 40, 46, 98
Answer: 21, 35, 98
22. Select all the numbers that are divisible by 50:
a. 25,650 b. 56,700 c. 4500 d. 35,905
23. Select all the numbers that are divisible by 3:
a. 360 b. 575 c. 8,007 d. 12,985

Part VI: Multiples and Patterns

24. Which set contains only multiples of 8?
a. 8, 12, 18 b. 16, 24, 32 c. 18, 25, 30 d. 32, 38, 40
25. Find the missing number in the pattern: 14, 21, 28, 35, 42.
26. List the first 6 multiples of 7: 7, 14, 21, 28, 35, 42
27. What are the first 8 multiples of 6: 6, 12, 18, 24, 30, 36, 42
28. Fill in the blank with factor or multiple:
a) 56 is a multiple of 8.
b) 5 is a factor of 45.

Part VII: Prime, Composite, and Square Numbers

29. What number is the square number of 13? 169
30. What number is the square number of 12? 144
31. What number is the square number of 11? 121
32. What number is the square number of 10? 100
33. List all the prime numbers between 1 and 50: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47
34. Classify the following numbers into Prime or Composite numbers:
56, 71, 63, 99, 23, 13, 80, 49
Prime numbers: 13, 23, 71
Composite numbers: 49, 56, 63, 80, 99
35. Select all the square numbers from the set below: 4, 16, 81
4, 16, 30, 48, 47, 81

Part VIII: Powers of 10 and Mental Math

36. What is $48 \times 1,000$?
a. 48 b. 480 c. 4,800 d. 48,000
37. What is 20×400 ?
a. 80 b. 800 c. 8,000 d. 80,000
38. What is $6,300 \div 100$?
a. 63 b. 630 c. 6,300 d. 63,000
39. What is $38,000 \div 200$?
a. 19 b. 190 c. 1,900 d. 19,000

Part IX: Basic Operations of Whole Numbers

Calculate each expression:

40. $45,230 + 18,410 =$ <u>63,640</u>	41. $73,500 - 24,120 =$ <u>49,380</u>	42. $5,218 \times 6 =$ <u>31,308</u>
43. $93 \times 78 =$	44. $2,096 \div 4 =$	45. $964 \div 7 =$

<u>7,254</u>	<u>524</u>	<u>137R5</u>
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Part X: Order of Operations and Parentheses

Calculate each expression:

46. $24 + 16 \times 2 - 8 =$ $= 24 + 32 - 8$ $= 48$	47. $36 \div (4 + 2) \times 3 =$ $= 36 \div 6 \times 3$ $= 6 \times 3$ $= 18$	48. $30 \div (7 - 2) + 12 =$ $= 30 \div 5 + 12$ $= 6 + 12$ $= 18$
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49. Insert parentheses () into the expression $4 \times 5 - 1 + 6$ so that the final calculated result equals 22. Equation:

$$\begin{aligned} & \underline{4 \times (5 - 1) + 6} \\ & = \underline{4 \times 4 + 6} \\ & = \underline{16 + 6} \\ & = \underline{22} \end{aligned}$$

Part XI: Problem Solving and Word Problems

Please show your work and write complete equations.

50. A book has a mass of 35 grams. What is the mass of 12 books?

$$35 \times 12 = 420$$

A: 420 g

51. A fruit shop sells 123 mangoes every day. How many mangoes do they sell in two weeks?

$$2 \text{ weeks} = 14 \text{ days}$$

$$123 \times 14 = 1,722$$

A: 1,722 mangoes

52. Andy made 3,240 milliliters of lemonade. He poured the lemonade equally into 6 bottles. How much lemonade was there in each bottle?

$$3,240 \div 6 = 540$$

A: 540 mL

53. Ms. Grace has 1,500 candies. She wants to share them equally among 166 students.

a. How many candies will each student get?

b. How many candies will be left over?

$$1,500 \div 166 = 9R26$$

a. 9 candies

b. 26 candies left

54. There are 27 piles of picture cards. Each pile has 54 picture cards. How many picture cards are there altogether?

$$27 \times 54 = 1,458$$

A: 1,458 picture cards

55. Mr. Richard bought 60 meters of wrapping paper. He used 1 meter of wrapping paper for a small present and 3 meters for a large present. How much wrapping paper did he have left after wrapping 21 small presents and 12 large presents?

$$\text{small present: } 21 \times 1 = 21$$

$$\text{large present: } 12 \times 3 = 36$$

$$21 + 36 = 57$$

$$60 - 57 = 3 \quad \text{A: } \underline{3 \text{ m}}$$

56. Ms. Lydia bought 300 shirts for \$600. She packed the shirts into boxes of 10 shirts each and sold all of them at \$45 for each box. How much money did she make in total?

$$300 \div 10 = 30 \text{ (boxes)}$$

$$30 \times 45 = 1,350$$

$$1,350 - 600 = 750 \quad \text{A: } \underline{\$750}$$

57. Andy heard that his school swimming pool can hold 13,524 gallons of water. Andy compared the school swimming pool with his home size swimming pool. He found out that a school size swimming pool contains 6 times as much water as the swimming pool in his home. How much water will there be in his home size swimming pool?

$$13,524 \div 6 = 2,254$$

A: 2,254 gallons

58. I am a square number between 100 and 200. If you add 5 to me, the result is a multiple of 7. What number am I?

Square numbers between 100 and 200: 121, 144, 169, 196

$$121 + 5 = 126 \quad 126 \div 7 = 18 \quad 196 + 5 = 201 \quad 201 \div 7 = 28R5$$

$$144 + 5 = 149 \quad 149 \div 7 = 21R2$$

$$169 + 5 = 174 \quad 174 \div 7 = 24R6 \quad \underline{\text{A: 121}}$$