

End-of-Unit Assessment

Number & Operations

5/6 Mathematics - Number Sense & Operations

Name: _____ Date: _____

Show your thinking. You may use estimation, models, or drawings. The last section is a Grade 6 challenge.

Part A - Place Value (/6)

1. Write 428 305 in words. (1)

2. Write the number: six hundred thousand, forty-two. (1)

3. Write 574 236 in expanded form. (1)

4. Order from least to greatest: 340 210, 304 120, 340 021, 304 210 (1)

5. What is the value of the 7 in 3 704 000? (1)

6. Round 486 217 to the nearest thousand. (1)

Part B - Operations (/7)

7. $356\,214 + 289\,507 =$ (1)

8. $803\,000 - 457\,260 =$ (1)

9. $246 \times 7 =$ (1)

10. $58 \times 34 =$ (1)

11. $125 \times 32 =$ (1)

12. $87 \div 6 =$ (give the quotient and remainder) (1)

13. 8 friends share 100 stickers equally. How many each, and how many left over? (1)

Part C - Decimals (/4)

14. Write 'five and seventy-three thousandths' as a decimal. (1)

15. Order from least to greatest: 0.4, 0.42, 0.402, 0.24 (1)

16. $4.6 + 3.85 =$ (1)

17. $9.20 - 5.437 =$ (1)

Part D - Problem Solving (/3)

18. You have \$50. You buy a book for \$18.75 and a game for \$22.50. How much change do you get? (1)

19. A class of 24 students needs 3 markers each. Markers come in packs of 8. How many packs are needed? (1)

20. Explain one strategy you used to check that an answer was reasonable. (1)

Grade 6 Extension (/7) - challenge

21. Write a number between two billion and three billion. Then write the value of its billions digit. (1)
(Gr 6)

22. Evaluate: $5 + 3 \times (12 - 4) =$ (1)
(Gr 6)

23. Evaluate: $(18 \div 3) + 2 \times 6 =$ (1)
(Gr 6)

24. List all the factors of 24. (1)
(Gr 6)

25. Write the first three common multiples of 4 and 6. (1)
(Gr 6)

26. $0.24 \times 3 =$ (1)

(Gr 6)

27. $6.4 \div 8 =$ (1)

(Gr 6)

Total: ____ / 20 (Grade 5 core) Extension: ____ / 7 (Grade 6)

Practice Activity

Lesson 1: Place Value Detective

5/6 Mathematics - Number Sense & Operations

Use place-value clues to crack each case. Show any working in the margin.

Name: _____ Date: _____

Case 1. I have 6 digits. My hundred-thousands digit is 5. My tens digit is 8. All my other digits are 0. Who am I?

Case 2. Build the LARGEST 6-digit number using each of these digits once: 3, 9, 1, 6, 4, 0.

Answer: _____

Case 3. Build the SMALLEST 6-digit number using 3, 9, 1, 6, 4, 0 once each (no leading zero).

Answer: _____

Case 4. I am between 400 000 and 500 000. My thousands digit is 5. My tens and ones digits are both 0. All my digits add up to 9. Who am I? _____

Case 5. In the number 3 6 2 8 4 1, circle the digit in the ten-thousands place, and write its value:

Detective Challenge (Gr 6). Write a number greater than one million but less than two million, then say the value of its millions digit: _____

Practice Activity

Lesson 2: Fact Maze

5/6 Mathematics - Number Sense & Operations

Shade every square with a TRUE equation. The true squares make a path from START (top-left) to FINISH (bottom-right)!

Name: _____ Date: _____

START $6 \times 7 = 42$	$8 \times 9 = 71$	$7 \times 6 = 48$	$9 \times 9 = 81$
$5 \times 8 = 40$	$6 \times 6 = 36$	$9 \times 4 = 36$	$8 \times 7 = 56$
$3 \times 9 = 29$	$7 \times 7 = 49$	$4 \times 8 = 30$	$6 \times 8 = 48$
$9 \times 3 = 27$	$8 \times 6 = 48$	$7 \times 8 = 54$	$9 \times 6 = 54$ FINISH

How many TRUE equations did you shade in total? _____

Challenge (Gr 6): Pick one FALSE square and fix it so the equation is true: _____

Practice Activity

Lesson 3: Number Pyramid

5/6 Mathematics - Number Sense & Operations

Each brick is the SUM of the two bricks below it. Fill in the empty bricks all the way to the top.

Name: _____ Date: _____

Pyramid A

[]
[] []
[] [] []
[12] [8] [15] [5]

Pyramid B (bigger numbers)

[]
[] []
[] [] []
[45] [38] [60] [27]

Missing-Brick Challenge (Gr 6). Some bricks are missing from the BOTTOM. Work backwards!

[100]
[] []
[18] [] [22]

Hint: the middle brick on the bottom is shared by both bricks above it.

Practice Activity

Lesson 4: Multiplication Mystery

5/6 Mathematics - Number Sense & Operations

Solve each product. Use the code to write the matching letter and reveal the answer to the riddle.

Name: _____ Date: _____

Riddle: What has many keys but cannot open a single door?

Product	36	42	54	63	72
Letter	I	P	A	O	N

Problem	Product	Letter
6 x 7	___	___
6 x 6	___	___
9 x 6	___	___
8 x 9	___	___
7 x 9	___	___

The answer is: _ _ _ _ _

Challenge (Gr 6): Make your own mystery. Pick a 3-letter word and write a product for each letter for a partner to solve.

Practice Activity

Lesson 5: Remainder Vault

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Solve each division. Write the QUOTIENT and REMAINDER. The remainders, in order, are the secret code that cracks the vault!

Name: _____ Date: _____

Problem	Quotient	Remainder
22 div 4	___	___
25 div 3	___	___
39 div 5	___	___
31 div 7	___	___
40 div 8	___	___

VAULT CODE: ___ ___ ___ ___ ___

Story problem. A baker has 50 cookies and puts 6 in each box. How many full boxes, and how many cookies are left over?

Boxes: _____ Left over: _____

Challenge (Gr 6): Find $512 \div 16$. Then name two factors of 512. _____

Practice Activity

Lesson 6: Decimal Challenge

5/6 Mathematics - Number Sense & Operations

Three quick decimal games. Read carefully - a small digit can still be worth a lot!

Name: _____ Date: _____

Game 1 - Order Up. Write each set from LEAST to GREATEST.

a) 0.6, 0.06, 0.66, 0.605 -> _____

b) 0.4, 0.42, 0.402, 0.24 -> _____

Game 2 - Closest to One. Circle the decimal in each row that is CLOSEST to 1.

a) 0.9 1.2 0.85 1.05

b) 0.7 0.98 1.3 0.55

Game 3 - Build It. Use the digit tiles 7, 4, 0, 9 once each to build the LARGEST decimal of the form .

Largest: _____ Smallest: _____

Challenge (Gr 6): Write 0.75 as a fraction and as a percent: _____

Practice Activity

Lesson 7: Shopping Spree

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Welcome to the School Store! Use the price list to answer each question. Line up your decimal points when you add.

Name: _____ Date: _____

Item	Price	Item	Price
Pencil	\$1.25	Markers	\$4.60
Eraser	\$0.75	Sticker sheet	\$0.90
Notebook	\$3.40	Water bottle	\$6.50

1. Buy a notebook and markers. What is the total? _____
2. You pay for #1 with a \$10 bill. How much change? _____
3. Buy a pencil, an eraser, and a sticker sheet. Total? _____
4. You have \$5.00. List things you could buy and still have money left:

Challenge (Gr 6): Buy 3 water bottles. What is the total? _____

Practice Activity

Lesson 8: Plan the Class Party

5/6 Mathematics - Number Sense & Operations

You have a budget of \$50.00. Choose what to buy, add up the cost, and stay under budget. Show your math!

Name: _____ Date: _____

Item	Price	Item	Price
Balloons (pack)	\$6.00	Pizza (1)	\$12.00
Cupcakes (12)	\$9.50	Fruit tray	\$8.00
Juice (8 pack)	\$4.25	Plates & cups	\$5.50
Chips (bag)	\$3.75	Playlist	FREE

My shopping list (item and price):

Total spent: _____ **Money left from \$50.00:** _____

Challenge (Gr 6): You buy 2 pizzas to feed 24 students. What is the cost per student? _____

Practice Activity

Lesson 9: Challenge Choice Board

5/6 Mathematics - Number Sense & Operations

Complete any *THREE* tasks in a row - across, down, or diagonal - like tic-tac-toe. Show your work on the back.

Name: _____ Date: _____

Write 620 405 in words.	Multiply: 27×6	Add: $3.5 + 2.75$
Divide: $55 \div 8$ (quotient and remainder)	FREE SPACE Teach a partner one strategy	Order least to greatest: 0.6, 0.06, 0.66
Estimate, then add: $4\ 812 + 3\ 199$	Gr 6 challenge: $4 + 2 \times (9 - 3)$	\$20, buy \$7.25 and \$9.50. How much change?

I completed three in a row: [] across [] down [] diagonal

My Learning Tracker

Number & Operations

5/6 Mathematics - Number Sense & Operations

Colour or check the box that fits after each lesson. Be honest - this helps you and your teacher know what to practise next.

Name: _____ Date: _____

Lesson	I can ...	Not yet	Getting there	I've got it!
1	I can read, write, and compare numbers to 1 000 000.			
2	I can use a mental-math strategy for my facts.			
3	I can estimate, then add and subtract to 1 000 000.			
4	I can multiply to three digits and show my thinking.			
5	I can divide and explain what the remainder means.			
6	I can read, compare, and order decimals to thousandths.			
7	I can add and subtract decimals to thousandths.			
8	I can solve a multi-step money problem.			
9	I can show what I learned about number and operations.			

One thing I am proud of: _____

One thing I want more practice with: _____