



MID-YEAR REVIEW

The Mid-Year Assessment is scheduled for _____ Use this review to help you prepare for this assessment. Study the following vocabulary.

VOCABULARY: Sum, Difference, Product, Quotient, Repeating Decimal, Terminating Decimal, Dividend, Divisor, Power of 10, Numerical Expression, Algebraic Expression, Simplify, Evaluate, Translate, Operations, Variable, Term, Constant, Coefficient, Exponent, Base, Factor, GCF

DIRECTIONS: FIRST FILL IN THE THINK BOXES TO HELP YOU BEGIN THINKING ABOUT EACH PROBLEM. THEN, ANSWER THE FOLLOWING QUESTIONS REFERRING TO YOUR CLASS NOTES, IF NEEDED.

ROUNDING DECIMALS

1. Round the following numbers to the given place value.

a) 67.83; tenths

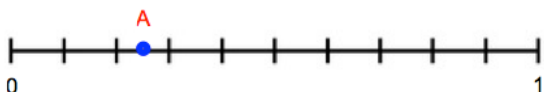
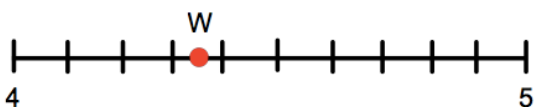
b) 123.9872; hundredths

WRITING DECIMALS AND THE NUMBER LINE

2. Write the following decimals.

a) eighty-one thousandths _____ b) twenty and five hundredths _____

3. Label the tick marks. Determine the decimal value of each of the following points.



Example Box:

*FOUR OR LESS, LET IT REST
FIVE OR MORE, UP THE SCORE*

Ex. 1 Round 50.67 to the tenths place.

Ex. 2 Round 1,655.4382 to the thousandths place.

Think Box:

*HOW MANY SECTIONS ARE THERE
BETWEEN EACH WHOLE NUMBER?*

*WHAT VALUE DOES EACH TICK MARK
REPRESENT?*

WHOLE NUMBER DIVISION AND REMAINDERS

4. Samantha ordered 61 picture frames for her business. The frames are mailed in boxes that can each hold 7 frames. What is the least number of boxes that can be used to mail Samantha's picture frames?

Example Box:

Ex. How many groups of 9 apples are in 103? How many apples are remaining?

ADDING, SUBTRACTING, MULTIPLYING AND DIVIDING DECIMALS

5. Perform the following operations. Estimate, then find the exact answer. **SHOW WORK.**

a) $73.56 + 124 + 45.3$ Estimate: _____

Example Box:

Ex. 1 $95.56 + 145.2 + 16$

b) $12 - 7.89$ Estimate: _____

Ex. 2 $200 - 124.6$

c) 7.4×4.32 Estimate: _____

Ex. 3 5.6×1.24

d) $82.03 \div 0.3$

Estimate: _____

Example Box:

Ex. 4 $2.016 \div 0.4$

How do you write a fraction as a decimal? Ex. $\frac{3}{4}$

6. Write $\frac{8}{11}$ as a decimal.

POWERS OF 10

1. Write the following numbers using an exponent.

a) 10,000 _____

b) 100 _____

2. Write these powers of 10 in standard notation.

a) 10^5 _____

b) 10^8 _____

3. Find the product or quotient,

a) 5.6×1000 _____

b) $\frac{40}{100}$ _____

Example Box:

Ex 1. Write 1,000 using an exponent.

Ex. 2 Write 10^7 in standard form.

Ex. 3 USE THE POWER OF 10 RULES to find the product or quotient.

$30 \times 10,000$

$4.5 \div 10$

ORDER OF OPERATIONS

1. EVALUATE THE FOLLOWING NUMERICAL EXPRESSIONS USING THE ORDER OF OPERATIONS.
USE THE FUNNEL METHOD.

a. $18 - 3(2 + 3) \div 5$

b. $3(17 - 14 + 6 \times 2)$

Example Box:

Ex. $3(8 + 32 \div 4^2)$

c. $(2^5 - 2 \times 10)^2$

d. $4(5) + 3^2 - 1$

Ex. $20 \div 2(5) + 9 - 1$

e. $4(8 + 16 \div 4^2)$

f. $20 - (10 + 2.67)$

g. $5(7.4)(10)$

TRANSLATING

2. Write an algebraic expression for each word phrase below.

- a. The quotient of a five and a number
- b. A number less than two hundred sixty
- c. Half of a number
- d. The sum of a number and sixteen thousandths
- e. The difference between a number and two
- f. The product of a number and two-tenths
- g. a number cubed
- h. a number squared

Example Box

Translate.

Ex. 1 Four less than v

Ex. 2 A number minus 9

Ex. 6 The product of a number and 5

3. Translate the following word problem to an expression.

- a. On Martin Luther King Day, Sam went snow boarding. He went down the mountain 14 times, while his older brother went down 18 times that day. Write a numerical expression to represent the difference between the two amounts of trips down.

PART IV: NUMBER THEORY

1. Determine if 102 is divisible by the values in the table below. Provide a reason or work to support your answer.

Divisible by...	Yes or No	Reason or Work
2		
3		
5		
6		
7		
10		

Example Box:

List the factors of 20.

*Find the GCF of 48 AND 84 using
THE BIRTHDAY CAKE METHOD
(DIVISION LADDER)*

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2. Use Birthday Cake to find the GCF of 48 and 96.