

NCTM Content Standards Assessment Rubric



Number and Operations

Student's Name: _____ Assignment: _____ Level: _____

	Level 1	Level 2	Level 3	Level 4
Understanding Numbers, Ways of Representing Numbers, Relationships Among Number Systems	<ul style="list-style-type: none"> • Demonstrates a limited understanding of numbers, ways of representing numbers and relationships among number systems 	<ul style="list-style-type: none"> • Demonstrates a basic understanding of numbers, ways of representing numbers and relationships among number systems 	<ul style="list-style-type: none"> • Demonstrates a good understanding of numbers, ways of representing numbers and relationships among number systems 	<ul style="list-style-type: none"> • Demonstrates a thorough understanding of numbers, ways of representing numbers and relationships among number systems
Understanding Meanings of Operations and How They Relate to One Another	<ul style="list-style-type: none"> • Demonstrates a limited understanding of the meanings of operations and how they relate to one another 	<ul style="list-style-type: none"> • Demonstrates a basic understanding of the meanings of operations and how they relate to one another 	<ul style="list-style-type: none"> • Demonstrates a good understanding of the meanings of operations and how they relate to one another 	<ul style="list-style-type: none"> • Demonstrates a thorough understanding of the meanings of operations and how they relate to one another
Computing and Making Estimates	<ul style="list-style-type: none"> • Demonstrates limited ability in computing and making estimates 	<ul style="list-style-type: none"> • Demonstrates some ability in computing and making estimates 	<ul style="list-style-type: none"> • Demonstrates satisfactory ability in computing and making estimates 	<ul style="list-style-type: none"> • Demonstrates strong ability in computing and making estimates

STRENGTHS:

WEAKNESSES:

NEXT STEPS:



Task Sheet 11

11a) A train ticket costs \$65.00 plus 7% state tax. Tamara bought a ticket using one \$50 bill and two \$10 bills. How much change should Tamara receive?



Show your Work

Answer: _____

b) Mary Jo decided to plant a flower garden this summer. This is what the garden looked like:

A																				
B																				
C																				
D																				
E																				

- i) Mary Jo filled 50% of which row? _____
- ii) Mary Jo filled what % of row B? _____
- iii) How many more percent was row C filled than row A? _____

Describe how you arrived at your answer for i) above.

c) If each of the flowers in b) is represented by and each dozen flower seeds costs Mary Jo .75¢, how much did she pay for the seeds?

Answer: _____



Review B

a) Calculate the mean, mode and median for the following list of numbers.

- 234, 298, 125, 345, 745, 125, 541

Mean	
Mode	
Median	

b) Place a < or > sign between each pair of fractions to indicate which is greater.

- i) $\frac{5}{8}$ ___ $\frac{7}{8}$ ii) $\frac{2}{3}$ ___ $\frac{5}{8}$ iii) $\frac{1}{3}$ ___ $\frac{3}{8}$ iv) $\frac{1}{2}$ ___ $\frac{5}{8}$ v) $\frac{3}{6}$ ___ $\frac{3}{7}$

c) Replace each blank with the correct digit.

- i) $21__341 + 8567 = 218908$ ii) $23.074 - 12.7__ = 10.353$ iii) $9.2 \times 6.__ = 58.88$

d) Mrs. Wormstead baked a batch of chocolate chip cookies. Each batch has a total of 15 cookies. Mrs. Wormstead's son, Steadfast, came home and ate $\frac{1}{3}$ of this batch. If she then baked three more batches, what is the total number of cookies that Mrs. Wormstead has?

- i) 40 ii) 55 iii) 60 iv) 45

e) Meredith finishes a race in 39.761 seconds. Her friend Amanda also ran in the same race. We know the following about Amanda's results:

- The number in the thousandths column is twice that of Meredith's
- The digit in the tens column was six more than Meredith's
- The number in the tenths column was five less than Meredith's

What is Amanda's time?

Answer = _____

f) The following numbers are written in expanded form. Rewrite them in standard form.

i) $4 \times 10^3 + 3 \times 10^2 + 5 \times 10 =$

ii) $7 \times 10^3 + 8 \times 10^2 + 2 \times 10 =$

Percentages, Rounding, Ordering, Patterning

- a) The owner of a local sports store has discounted every item in stock. Calculate the sale price for the following items.

	ITEM	RETAIL PRICE	DISCOUNT	SALE PRICE
i)	A baseball glove	\$60	40%	
ii)	A bicycle	\$640	20%	
iii)	A hockey stick	\$135.95	12.5%	
iv)				

- b) Round off the following numbers to the nearest tenth.

i)		ii)		iii)	
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- c) List the following rational numbers in order from least to greatest (may include fractions and decimals).

- d) What fraction is halfway between _____ and _____?

Answer:

- e) One number in the following set is not equivalent to the others. Determine which number it is and explain why.

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