

NCTM Content Standards Assessment Rubric

Number and Operations – Drill Sheets

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:

SAMPLE



14a) Write the place value of the underlined digit.

i) 341893.234 = _____

ii) 639 745.116 = _____

b) Use >, <, or = to compare the pairs of numbers below.

i) 7762.661 7762.0661

ii) 996.080 996.08

c) Solve the following.

i) $567.341 \times 100 =$

ii) $43 \times 10^3 =$

iii) $0.00023 \times 0.001 =$

iv) $10^2 \times 10^1 =$

v) $144 \div 12 =$

vi) $72 \div 8 =$

vii) $99 \div 11 =$

viii) $12 \times 1 =$

d) Write the following numbers using words. Ex: 32.6 = thirty two decimal six

i) 325.23 = _____

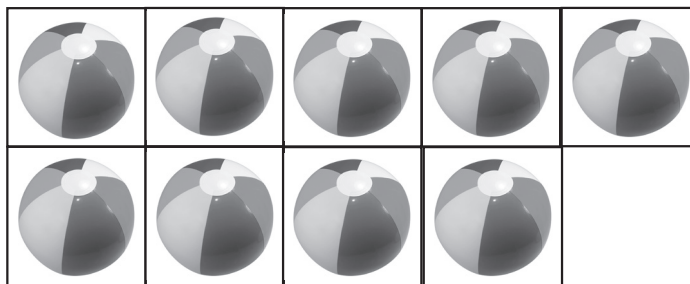
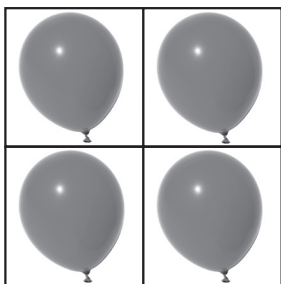
ii) 277 359 = _____

e) Write the expanded form for each of the following numbers. Ex: 10.12 = 10 + 0.1 + 0.02

i) 67 892 = _____

ii) 78 401.96 = _____

f) For the following picture, write as many multiplication and division sentences that you can.



g) Find the value of each percent:

i) 60% of 90

ii) 32% of 200

NAME: _____



Review B

a) What is the number 10 000 before the following:

i)	80 252	
ii)	952 873.6	

b) Multiply the following.

i) 5902×245

ii) $\$53.90 \times 376$

iii) 765.1×23.5

iv) 53.01×3.7

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

390, 440, 280, 782, 440, 336, 316

Mean	
Median	
Mode	

d) Record the following number in the accompanying place value chart. 29 064.013

Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

e) Solve the following.

i) $1/3 \times 4/5 =$

ii) $7/8 \div 1/4 =$

iii) $7 \times 1/5 \times 2/7 =$

iv) $2/3 \div 1/8 \times 1/2 =$

v) $6.2 \times 10^2 =$

vi) $0.002 \times 10^3 =$

Fractions, Percent



a) Record the following number in the accompanying place value chart.

Ten Thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

b) Shade the model to show the correct fraction below.

Fraction =

c) Find the value of each percent.

i) _____ % of _____ = _____ ii) _____ % of _____ = _____

d) Place either a $>$ or $<$ symbol between the following pairs of fractions or decimals to indicate which is greater.

i) _____ _____ ii) _____ _____ iii) _____ _____

e) Convert the following improper fractions to mixed numbers.

i) _____ = _____ ii) _____ = _____ iii) _____ = _____

f) What is the correct way to write the number _____ in words?