

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 |

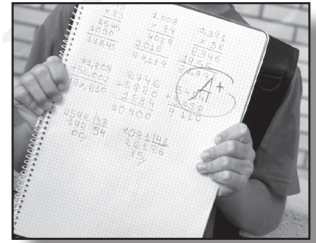
STRENGTHS:

WEAKNESSES:

NEXT STEPS:



12a) Solve the following.



i) $\begin{array}{r} \$43.65 \\ \times \quad 98 \\ \hline \end{array}$

ii) $\begin{array}{r} 2.891 \\ \times 0.2 \\ \hline \end{array}$

iii) $\begin{array}{r} \$336.78 \\ \times \quad 369 \\ \hline \end{array}$

iv) $(3.8 + 5.8) \div (6.8 - 3.8) =$

v) $(7.5 - 0.25) \times (6.22 + 4.01) =$

b) Write a fraction for each decimal.

Ex: $0.450 = 450/1000 = 9/20$

Ex: $1.222 = 1 \frac{2}{9}$

i) $0.125 =$

ii) $0.250 =$

iii) $1.33 =$

iv) $0.90 =$

v) $3.8 =$

vi) $75.75 =$

c) Round the following number to the nearest 1,000.

i) $77,643.2 =$

ii) $1,250,380 =$

iii) $555 =$

d) Write the number 70,000 in words. _____

e) In the chart below, five math scores (out of 25) are listed for Eric and Maggie. For each student, calculate the mean, median and mode.

| | Test 1 | Test 2 | Test 3 | Test 4 | Test 5 | Mean | Median | Mode |
|--------|--------|--------|--------|--------|--------|------|--------|------|
| Eric | 22 | 19 | 25 | 22 | 17 | | | |
| Maggie | 21 | 23 | 17 | 22 | 17 | | | |

Explore With Technology

Use a calculator to complete the following. Keep in mind the proper order of operations!

$17,234 + 234.1 - (32 - 20)^2 \times 7$

NAME: _____



Review A

a) List the following numbers in order from greatest to least:

17.34, 21.009, 1.734, 2.1009, 0.1734 _____

b) Write the following number in words.

86 356 _____

c) Determine:

i) 40% of 24 _____

ii) 25% of 120 _____

d) Write the place value of the underlined digit.

i) 5902.5 = _____ ii) 2548.23 = _____

e) Write the following number in expanded form.

134 691 = _____

f) Multiply the following.

$$\begin{array}{r} \text{i) } 3518 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} \text{ii) } 804.3 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} \text{iii) } \$32.78 \\ \times 51 \\ \hline \end{array}$$

$$\begin{array}{r} \text{iv) } 5397 \\ \times 0.02 \\ \hline \end{array}$$

g) In Rene's swim team, 12 of the 19 members are girls. What is the ratio of girls to boys on her swim team? _____

h) Find the missing number in the fraction equivalents.

i) $\frac{4}{5} = \frac{\quad}{25}$

ii) $\frac{1}{2} = \frac{\quad}{24}$

iii) $\frac{12}{48} = \frac{1}{\quad}$

Divisor, Dividend, Remainder

a) Write the equivalent fractions of:

i) _____ \rightarrow _____ ii) _____ \rightarrow _____ iii) _____ \rightarrow _____

b) Calculate the mean, the median and the mode for the following:

| | | |
|---|----------|-------|
| _____, _____, _____, _____, _____, _____, _____ | Mean = | _____ |
| | Median = | _____ |
| | Mode = | _____ |

c) Show each fraction as a percent.

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

d) Divisor = _____, Dividend _____, Remainder = _____.

What is the quotient? _____

e) What is the LCM of the following numbers. _____, _____

f) Write the following number in expanded form.

= _____