# **Process Standards Rubric**

### Number and Operations

	<b>Expectations</b> Instructional programs from pre- kindergarten through grade 12 should enable all students to:	-	5	ŝ	4	20	و و	4°ET *		S S	0	112	13	14	15	Drill Sheet 1	Drill Sheet 2	A wəivəA	Beview B	D wsivsk
Ргорlет Solving Вторleт Solving	<ul> <li>build new mathematical knowledge through problem solving;</li> <li>solve problems that arise in mathematics and in other contexts;</li> <li>apply and adapt a variety of appropriate strategies to solve problems;</li> <li>monitor and reflect on the process of mathematical problem solving.</li> </ul>					>>>>			* * * *	> > > > >	>>>>>	>>>>>		2222	2222	<u> </u>	<u>&gt; &gt;</u>	>>>>	>>>>	<u>&gt;&gt;&gt;&gt;</u>
GOAL 2: Reasoning & Proof	<ul> <li>recognize reasoning and proof as fundamental aspects of mathematics;</li> <li>make and investigate mathematical conjectures;</li> <li>develop and evaluate mathematical arguments and proofs;</li> <li>select and use various types of reasoning and methods of proof.</li> </ul>	1111								> > >	> >	> > >	5 5	5 5	2 2 2	>	>	>>>>	> >> >	> >> >
GOAL 3: Communication	<ul> <li>organize and consolidate their mathematical thinking through communication;</li> <li>communicate their mathematical thinking coherently and clearly to peers, teachers, and others;</li> <li>analyze and evaluate the mathematical thinking and strategies of others;</li> <li>use the language of mathematics to express mathematical ideas precisely;</li> </ul>	>> >	>>>>>	>>>>>	>>	5555					2 2 2 2 2		>>>>>	2 2 2 2	1111	> >	> >	>>>>>	>>>>>	<u> </u>
connections COAL 4:	<ul> <li>recognize and use connections among mathematical ideas;</li> <li>understand how mathematical ideas interconnect and build on one another to produce a coherent whole;</li> <li>recognize and apply mathematics in contexts outside of mathematics.</li> </ul>	>>>>	> >		>>>	>>>>								5 5 5	>>>>	>>	>>	>>>>	>>>>	<u> </u>
GOAL 5: Representation	<ul> <li>create and use representations to organize, record, and communicate mathematical ideas;</li> <li>select, apply, and translate among mathematical representations to solve problems;</li> <li>use representations to model and interpret physical, social, and mathematical phenomena.</li> </ul>	> > >	>>>	> > >	>>>	>>>	>>>	>>>	* * *	> > >	> > >	> > >	5 5	> > >	>>>	> > >	> > >	> > >	> > >	>>>

© CLASSROOM COMPLETE



NAME:

# Task Sheet 2

2a) Many parts of the world are getting to be quite crowded. Below we have listed ten countries ranked in order of their population (greatest to least). Your task is to match each country with the correct population figure.

1,321,851,888

China		Germany		
United States		Egypt		
Indonesia		Iran		
Mexico		Thailand		
Vietnam		Canada		
	·			
82,400,996	234,693,997	85,262,356	3, 390, 141	264,543

97,521

a unities in the above chart that have a If you add the populations of the nin b) smaller population that Chind is he combined total greater than China's?

108,700,

O Yes			
	ur Answer		

The population of the United States is projected to increase by about 1% per year. C) If that holds true, what would its approximate population be after one year?

i) 346,238,112 ii) 312,367,189 iii) 304,151,346 iv) 301,876,324



65,068,149

301,139,947



N	Α	N	1	F	•
1 1		I V	L	ᄂ	

**d)** 

## **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	

Review Sheet

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 - 1<u>2.7</u> = 10.353

Mrs. Wormstead baked a batch of chocologe chip wokies. Each batch has a total of 15 cookies. Mrs. Watastear 's son Steadfast, came home and ate 1/3 of this batch. If she then bak a three more batches, what is the total number of

cookies that Mrs. Worns ead as

i) 40 ii) 55

iv) 45

- e) Meredith finishes a face 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

60

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

 $iii 2 \times 6. = 58.88$ 

# 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	<b>RETAIL PRICE</b>	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.

ii)

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

iii)

- 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.

