DynaNotes™ Student Course Notes Grade 5 Math



	Category 1 - Numerical Representations & Relationships				NUMERICAL EXPRESSIONS AND SIMPLIFICATION OR			
		PLACE, PLACE VALUE, AND VALUE OF A DIGIT				parentheses(): used to group pression Example: $(3 - \frac{1}{2})$		
	Find place starting at decimal; digit's value = digit x place value				brackets[]: used to group ression that includes one			
	Example: In 921,154,803.637, the value of 7 is 7 x 0.001 = 0.007				or more groups in parent Exam $2[10]_T^2 - \frac{3}{10}] + 5]$			
	Place	Place Value		Digit's Value	There are many ways cate metation: the x sign,			
ž	hundred millions 1	00,000,000	9 9	900,000,000	the • sign, an		st par es () or ' ets [].	
-		10,000,000	2	20,000,000	Examples: $2 \times 3 = 2 + \frac{1}{2}$ $\frac{1}{2}(100 - 22)$ is half of (100 - 3) is 5 to get thus 17			
-	millions,	1,000,000	1	1,000,000				
LEARNING	hundred thousands	100,000	1	100,000	To simplify an expression, us			
3	ten thousands	10,000 🖋 🕫	5	50,000	the order of operations: start from 1+61 11			
w	thousands, hundreds	1,000	8	4,000 800	the "inside" and work outward:			
EXPLOSIVE	tens	10	0	000	2. Brown $4+3$ \rightarrow [], x			
S	ones.	1 × 10	3	3	3. Multiply le (left to $2[7] \rightarrow [], +$			
2	tenths	0.12+	10 G	0.6	4. Add and su		$14 \rightarrow x$	
5	hundredths	0.01	3	0.03	les: Si	mol	a step to avoid errors.	
Ξ.	thousandths	0.001	7	0.7	2(4	-1) 0	- 51) (3.3.9 - 4 x 2 + 18 ÷ 3	
œ	expanded notation: expression that adds each digit's y				A-1. $\left(\frac{3}{6} - \frac{2}{6}\right)$ $(4 - 9)$ $(4 - 9)$ $(4 - 8 + 18 + 3)$			
FOR	Examples: two and twelve thousandths: 2.012 = 2 + 0.0				(i) 9-8+6 1-6			
	sixty-seven hundredt						$5 \rightarrow iejt io right,$	
2	five million three and t	wo tenths: 5,000,0	003.2 = 5,	000,000 +	2 = 0		7 <u>not</u> 9 - 14	
TOOLS	COMPARING, ORDERING, ROUNDING DECIMALS @ qory 2 - Comput. Sons & Algebraic Relationsh							
Ĕ	1. Line up the same p			squal to	NG		SITIVE RATIONAL NUMBERS	
-	columns by alignin	-		ter than	Be.	ming oper	ations, convert numbers to same form.	
	2. Starting from the let				- Fis	Sction	Conversion Method	
	3. If the digits in a colu				whole number	floction	put the whole number over 1 $(5 = \frac{5}{1})$	
	right) and compare.			"Bh			put digits to right of decimal point as	
	4. Compare the differe		hich nu	in Tara	decimal	fraction	numerator; use smallest place value for denominator; any whole number	
	Example: 6.08 ① 6.0 6.08 Wrong, deci			in the second	decimal		portion remains whole $(2.15 = 2\frac{15}{100})$	
	6.0/9 are not aligi		50	10		decimal	divide numerator by denominator (if	
æ	rounding: used to est			1908	Traction	or whole	evenly divisible, answer is whole _ 0.6	
-26	Examples: If digit to right		lace	round up	2	number	number) $\frac{n}{2} = n \div d \text{ or } d \ln (\frac{1}{2} = 0.6) 5 3.0$	
com ISBN 978-1-935005-56-8		the same digit		ng place.	fraction	improper fraction	multiply or divide both numerator and	
	Number 7	NOT		cause	fraction		denominator by same non-zero number $\left(\frac{5}{1} = \frac{5 \times 3}{1 \times 3} = \frac{15}{3}; \frac{215}{100} = \frac{215 + 5}{100 + 5} = \frac{43}{20}; \frac{5}{10} = \frac{5 + 2}{10 + 2} = \frac{3}{3}\right)$	
	15.867		isht	of 8 is 6, 6 > 5			convert whole number to equivalent	
	0.003 hui	5	A	of 0 is 3, 3 < 5	mixed number		fraction with same denominator as	
	9.051 te		ht	of 5 is 5; 5 = 5			fraction part and add $\left(2\frac{15}{100} = \frac{200}{100} + \frac{15}{100} = \frac{215}{100}\right)$	
	2.196 hundre	2.20	right	of 9 is 6; 6 > 5	improper fraction	mixed number	divide d In; quotient is mixed number's	
	PRINT AND COMP		NUMP	L9S			whole part, remainder over divisor is	
tes.com	two numb	ers ultiply	-	er to make a	400171001		fraction part $(\frac{1}{2} \rightarrow 2)7 \rightarrow 3 \text{ R } 1 = 3\frac{1}{2}$	
68	and produce a sama actor part or ds ADDITION AND SOBTRACTION PROBLEM							
	nime num	hese hander i	spes an	e <u>ne</u>			tract.	
1	self	ending 10.	a > 2 1 u	[dis			1.60	
- T								
, www.	(a) = a + 2a + b + a + a + a + a + a + a + a + a +							
	comport and the comport of the compo							
	has more pairs 5 + 1 + 3 = 15, and 15 is a m These student course notes are also							
	than just 1 and itself. Interior 5/3 \pm 3 = 191, so 33							
	Examples: 4, 6, 8, 5, 12, 14, 15, 16, 18, 20, 21, 22, : available via the <i>DynaNotes Plus</i> app							
	factor tree: comporte 6 24 for students iPads and Android tablets.						a Android tablets.	
	number's factors show		4 x	6			Cite]	
	only <u>prime numbers</u> r	emain 3 x 3	(Z)x(2)(2	IX 3				
cates is to	Example: Circle 97	72 57 (59) 81 (13) 27	49 23 2 5			3% - % = 3% Day 2 = 4.75 - 0.8 = 3.95	
e and	the prime numbers.	<u> </u>	_	000	Iotal = 4	统 + 3% = 7	¹ / ₃₀ = 8 ⁺ / ₃₀ = 8 ⁺ / ₃₀ Total = 4.75 + 3.95 = 8.7 km	

5

DVNA NOTE

on aligns t exas College and lareer Readiness Standards.

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