Study Guide: Multi-Digit Division, Multi-Step

Expressions, and Measurement Conversion Module 2: End of Module Assessment Study Guide

SOA2: Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

SOA2: Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.

SNBT_2: Explain patterns in zeros and decimal placement of the product when x or ÷ a number by powers of 10. Use whole-number exponents to denote powers of 10.

SNBT_5: Fluently multiply multi-digit whole numbers (up to three-digit by four-digit factors) using appropriate strategies and algorithms.

SNBT_6: Use equations, rectangular arrays, and/or area models to to divide 4-digit dividends by 2 digit divides with partial quotients/remainders and recognize the connection to multiplication.

SNBT_2: +-.x. + decimals to hundredths: using concrete models/drawings/strategies using place value and operation understanding: check reasonableness using estimation strategies.

S.NBI.1: +.x.÷ decimals to hundredths, using concrete models/drawings/strategies using place value and operation understanding; check reasonableness using estimation strategies.

S.MD.1: Convert larger measurement units to a smaller measurement unit & use to solve multi-step real world problems involving distances, intervals of time, liquid volumes, masses of objects, and money.

Name:

1. Complete the chart.

5.0A.1 & 5.0A.2

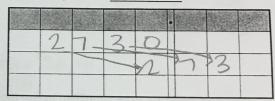
40 times the sum of 17 and 23	a.40x(17+23)	b. 40×40
c. The difference between 1,000 and	(1,000 - 750) ÷ 25	d. 250÷25
the sum of 3 elevens and 17 elevens	e. (3×11) + (17×11)	f. 33+187 220

2. Express the missing divisors using a power of 10. Explain using a place value chart. 5.NBT.2

a.
$$8.7 \div 100 = 0.087$$

		8	7-		
				8-	7

b.
$$2,730 \div 1000 = 2.73$$

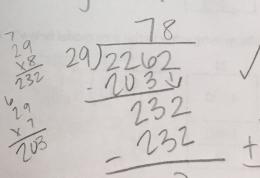


Date:

Use mental math to estimate the quotients. You must include the estimated dividend, divisor, and quotient for each.

A rectangular yard has an area of 2,262 square meters and a width of 29 meters. What is the length?

42400n2=30m=80m



Write an expression that matches 8 + 15 x (14-8)? 5.

The difference of 14 and 8 is multiplied by 15, then added to 8.

What division problem does the following area model represent? 6.

> 17 1700 850 + 340 - 2890 ÷ 17=170 1,700 100 850 50 20 340

Describe what an accurate array model that represents the division problem 171 \div 19 would look like. 7.

The array should have 171 objects arranged into 19 nows.

Which expression can be simplified to find the quotient of $5,375 \div 15$? 8.

5.NBT.6

5.NBT.6

5.OA.2

5.NBT.6

- $(5,000 \div 15) + (70 \div 15) + (5 \div 15)$ A.
- $(5,000 \div 15) + (300 \div 15) + (75 \div 15)$
 - $(500 \div 15) + (30 \div 10) + (75 \div 5)$
- $(500 \div 15) + (30 \div 15) + (75 \div 15)$
- What is the dividend represented by the area model below? 9.

5.NBT.6

What is the missing value in the area model below? What dividend is represented? 10.

5.NBT.6

	21	
200	4,200	
?	1,680	
3	63	

1680 = 21

