

# 3<sup>rd</sup> Grade CRCT Study Guide

## Numbers and Operations 50%

### Place Value

Ten thousands	Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths
2	6	.	7	5	9	.	3

Twenty six thousand, seven hundred fifty nine and three tenths

$$20,000 + 6,000 + 700 + 50 + 9 + 0.3$$

$$(2 \times 10,000) + (6 \times 1,000) + (7 \times 100) + (5 \times 10) + (9 \times 1) + (3 \times 0.1)$$

How many tens are in 750? There is a five in the tens place, but it takes 75 tens to make the number 750, so there are 75 tens in 750.

### Estimation

$$329 + 175 =$$

329 is about 300  
and 175 is about  
200, so the answer  
is about 500

$$488 - 87 =$$

488 is about 500  
and 87 is about 100,  
so the answer is  
about 400

### Making Change with fewest coins



### Multiplication

$$\begin{array}{l} 3 + 3 + 3 + 9 \\ \text{or} \\ 3 \text{ groups of } 3 = 9 \\ \text{or} \\ 3 \times 3 = 9 \end{array}$$



### Area Model

$$10 + 3$$



4

$$40 + 12 = 52$$

Multiplying by multiples of 10

$$6 \times 7 = 42 \text{ so... } \underline{60} \times \underline{7} = \underline{420}$$

$$2 \times 15 = 30 \text{ so... } \underline{20} \times \underline{150} = \underline{3,000}$$

### Partial Products

$$\begin{array}{r} 39 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 30 + 9 \\ \times 4 \\ \hline 36 \text{ (} 4 \times 9 \text{)} \\ + 120 \text{ (} 4 \times 30 \text{)} \\ \hline 156 \end{array}$$

### Estimation

537

$$\times 8$$

Estimate:

$$500 \times 8 = 4,000$$

The product will be about 4,000

### Identity Property of Multiplication

- Any number multiplied by 1 will keep its original value.
- $23 \times 1 = 23$ ,  $1 \times 8 = 8$

### Associative Property of Multiplication

- When multiplying any 3 numbers, changing the grouping does not change the product.
- $(3 \times 4) \times 5 = 3(4 \times 5)$   
 $12 \times 5 = 60$        $3 \times 20 = 60$

### Commutative Property of Multiplication

- When multiplying any 2 or more numbers, changing the order does not change the product.
- $3 \times 4 = 4 \times 3$   
 $12 = 12$

### Division

Division is the inverse of multiplication

$$12 \div 4 = 3 \text{ and } 4 \times 3 = 12$$

Division can be thought of as repeated subtraction

$$15 - 3 - 3 - 3 - 3 = 0 \text{ so } 15 \div 3 = 5$$



# Mct2 Study Guides For Third Grade

**JS Bruner**



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