

Estimating

M4N2 Students will understand and apply the concept of rounding numbers.

e. Represent the results of computation as a rounded number when appropriate and estimate a sum or difference by rounding numbers.

M4N7 Students will explain and use properties of the four arithmetic operations to solve and check problems.

d. Use mental math and estimation strategies to compute.

estimate the sum: round the numbers and add

23	20	345	300	9,129	9,000
<u>+89</u>	<u>+90</u>	<u>+496</u>	<u>+500</u>	<u>+5,631</u>	<u>+6,000</u>
	110		800		15,000

estimate the difference: round the numbers and subtract

45	50	745	700	9,129	9,000
<u>-21</u>	<u>-20</u>	<u>-496</u>	<u>-500</u>	<u>-5,631</u>	<u>-6,000</u>
	30		200		3,000

estimate the product: round the numbers and multiply

78	80	67	70	254	300
<u>x 5</u>	<u>x 5</u>	<u>x18</u>	<u>x 20</u>	<u>x 349</u>	<u>x 300</u>
	400		1,400		90,000

estimate the quotient: round the numbers and divide

$61 \div 2 =$	$891 \div 32 =$
$60 \div 2 = 30$	$900 \div 30 = 30$