

Checking Multiplication by Estimation

Do not use a calculator. By estimating the answer check these multiplications. In the decision column write either "Definitely wrong" or "Correct or near to correct". Discuss the answers in class.

Problem	Estimate of answer, or a reason the answer is wrong	Decision
$46 \times 89 = 4097$	$6 \times 9 = 54$, so units column is wrong	Definitely wrong
$48 \times 53 = 2544$	$\approx 50 \times 50 = 2500$	Correct or near to correct
$81 \times 89 = 7209$		
$8 \times 8978 = 83\ 024$		
$8888 \times 42 = 17\ 776$		
$5.9342 \times 12.3 = 72.99066$		
$0.972 \times 6309.8 = 5133.1256$		
$45.1 \times 44.9 = 2024.99$	$40 \times 40 = 1600$, $50 \times 50 = 2500$. Answer ≈ 2000	Correct or near to correct
$24.7 \times 66.11 = 1432.917$		
$65.1 \times 56 = 3645.6$		
$2\ 789 \times 29 = 74\ 881$		
$35.01 \times 6\ 503 = 22760.03$		
$888 \times 923 = 819\ 624$		
$4.977 \times 8.76 = 43.59852$		
$1.0567 \times 456.9 = 452.0623$		
$\frac{10}{21} \times \frac{10}{21} = \frac{100}{441}$	$\frac{10}{21} \times \frac{10}{22} \approx \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \approx \frac{100}{441}$	Correct or near to correct
$\frac{1}{11} \times 23.61 = 2.15$		