

A Quick Way to Multiply by 25

Instead of Multiplying by 25, divide by 4 and attach:

00 if it goes evenly

Ex 1: $36 \times 25 = 36 \div 4 = 9$, remainder = 0, attach 00 → answer is 900

Ex 2: $128 \times 25 = 128 \div 4 = 32$, remainder = 0, attach 00 → answer is 3200 or 3 200

25 if there is a remainder of 1

Ex 3: $37 \times 25 = 36 \div 4 = 9$, remainder = 1, attach 00 → answer is 925

Ex 4: $145 \times 25 = 145 \div 4 = 36$, remainder = 1, attach 00 → answer is 3625 or 3 625

50 if there is a remainder of 2

Ex 5: $38 \times 25 = 36 \div 4 = 9$, remainder = 2, attach 00 → answer is 950

Ex 6: $98 \times 25 = 98 \div 4 = 24$, remainder = 2, attach 00 → answer is 2450 or 2 450

75 if there is a remainder of 3

Ex 7: $39 \times 25 = 36 \div 4 = 9$, remainder = 3, attach 00 → answer is 975

Ex 8: $1\,763 \times 25 = 1763 \div 4 = 440$, remainder = 3, attach 00 → answer is 44075 or 44 075

This works because $\mathbf{number} \times 25 = \frac{\mathbf{number}}{1} \times \frac{100}{4} = \frac{\mathbf{number}}{4} \times 100$

This will leave an answer of	number.00 x 100 or	number ending in 00
	number.25 x 100 or	number ending in 25
	number.50 x 100 or	number ending in 50
	number.75 x 100 or	number ending in 75