

Mental Math Strategies



Warm-up: Solve using mental math.

$$1) \quad 30 \times 800 = 24,000$$

$1 + 2 = 3$

$$2) \quad 420,000 \div 70 = 6,000$$

$4 - 1 = 3$

Patterns:

- When multiplying numbers that end in zeros, multiply the non-zero parts and add one zero to your answer for each zero in the problem.

Ex 1: $500 \times 9000 = 4,500,000$

$2 + 3 = 5$

- When dividing numbers that end in zeros, divide the non-zero numbers and add zeros for the difference of the zeros in the dividend and the divisor.

Ex 2: $600,000 \div 120 = 5,000$

$4 - 1 = 3$

Now you try!

$$1) \quad 5000 \times 40 = 200,000$$

$$2) \quad 600 \times 1100 = 660,000$$

$$3) \quad 72,000,000 \div 1200 = 60,000$$

$$4) \quad 300,000 \div 500 = 600$$

$$5) \quad 1200 \times 50 = 60,000$$

$$6) \quad 800 \times 1000 = 800,000$$

$$7) \quad 480,000,000 \div 600 = 800,000$$

$$8) \quad 270,000 \div 3000 = 90$$