More Mental Math

To **multiply** 2,000 × 120, simply multiply 2 × 12, and place four zeros on the end of the answer: 2,000 × 120 = 240,000	Solve **division** by thinking of multiplication "backwards": 5,600 ÷ 70 = ? Think what number times 70 will give you 5,600. Since 70 × 80 = 5,600, then 5,600 ÷ 70 = 80.	You can **add in parts**. 76 + 120 + 65 = ? First add 70 + 120 + 60 = 250. Then, 6 + 5 = 11. Lastly, 250 + 11 = 261.
The **order of operations** is: 1. Parentheses 2. Exponents; 3. Multiplication and division; 4. Addition and subtraction.		
To calculate 9 × 80 − 10 × 70, first solve 9 × 80 and 10 × 70. Subtract only after those calculations. 9 × 80 − 10 × 70 = 720 − 700 = 20	In the expression 4,500 ÷ (5 + 45) × 80, solve 5 + 45 first. Then, divide. 4,500 ÷ (5 + 45) × 80 = 4,500 ÷ 50 × 80 = 90 × 80 = 7,200	

1. Solve in your head.

a. 410 + 2 × 19 =	**b.** 3 × 50 + 4 × 150 =	**c.** 70 × 80 − 40 × 50 =
d. 14 + (530 − 440) =	**e.** 45 + 56 + 35 =	**f.** 300 ÷ 5 − 400 ÷ 10 =

2. Solve in your head.

a. 17 + _____ = 110 **b.** 345 + _____ = 1,000 **c.** 3 × 40 + _____ = 500

3. Divide. Remember that division can also be written using a fraction line.

a. $\frac{240}{4}$ = **c.** $\frac{72}{9}$ = **e.** $\frac{5,600}{10}$ = **g.** $\frac{420}{20}$ = **i.** $\frac{420}{70}$ =

b. $\frac{7,200}{100}$ = **d.** $\frac{450}{9}$ = **f.** $\frac{8,000}{200}$ = **h.** $\frac{10,000}{50}$ = **j.** $\frac{7,200}{800}$ =