# Mental Math

1. Continue the sequences for 5 more numbers.

    **a.** 1, 10, 100,

    **b.** 50, 85, 120, 155,

    **c.** 1, 2, 4, 8,

    **d.** 1200, 1098, 996,

    **e.** 13,122;  4,374;  1,458;  486;

    **f.** 47, 35, 46, 34, 45,

2. Solve using mental math.

| | | |
|---|---|---|
| **a.** $2 \times 19 + 410 =$ _____ <br><br> $3 \times 50 + 4 \times 150 =$ _____ <br><br> $90 \times 8 + 10 \times 20 =$ _____ | **b.** $14 + 30 + 540 =$ _____ <br><br> $45 + 56 + 35 =$ _____ <br><br> $17 +$ _____ $= 110$ | **c.** $345 +$ _____ $= 1,002$ <br><br> $3 \times 40 +$ _____ $= 500$ <br><br> $2 \times 14,000 +$ _____ $= 50,000$ |

| | |
|---|---|
| **d.** $500 - 40 - 3 \times 50 =$ _____ <br><br> $1,020 - 40 \times 20 =$ _____ <br><br> $42,000 - 12,000 + 3 \times 5,000 =$ _____ | **e.** _____ $- 1,400 = 6,200$ <br><br> $2,200 \div 100 =$ _____ <br><br> $250 \div 5 + 150 \div 5 =$ _____ |

3. Match two equations with each diagram. Then find the value of y.

| 120 | 120 | 120 | 120 | 240 |
|---|---|---|---|---|

    ├──────── y ────────┤

| y | y | y | y | 120 |
|---|---|---|---|---|

    ├──────── 240 ────────┤
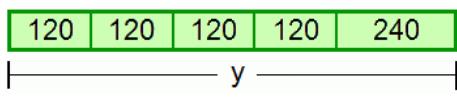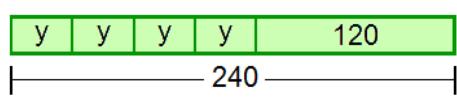
    $240 - 4y = 120$

    $4 \times 120 + 240 = y$

    $4y + 120 = 240$

    $y - 4 \times 120 = 240$

4. Solve mentally.

    **a.** $x \div 70 = 40$      **b.** $20 \times M = 1200$      **c.** $500 - y = 320$      **d.** $180 + x = 920$

5. Division can be written this way, too.

    **a.** $\dfrac{240}{4} =$      **b.** $\dfrac{72}{9} =$      **c.** $\dfrac{5,600}{10} =$      **d.** $\dfrac{420}{20} =$

    $\dfrac{7,200}{100} =$      $\dfrac{450}{9} =$      $\dfrac{8,000}{200} =$      $\dfrac{10,000}{50} =$

6. Find the rule that is used in the table and fill it.

| $n$ | 130 | 250 | 360 | 410 | 775 | 820 | 1,000 |
|---|---|---|---|---|---|---|---|
| $n -$ ____ | | 215 | | 375 | | | |