

Name: ..... Class: .....



Addition patterns over increasing place values

Complete the following patterns over increasing place values.

**Example : a)**

$$\begin{aligned} & \quad + 7 = 16 \\ & \quad + 70 = 160 \\ & \quad + 700 = 1,600 \\ & \quad + 7,000 = 16,000 \\ & \quad + 70,000 = 160,000 \end{aligned}$$

Let's first of all form an equation for the first expression

$$\begin{aligned} ? + 7 &= 16 \\ ? &= 16 - 7 \\ ? &= 9 \quad \text{So, } ? = 9 \end{aligned}$$

Now, complete the pattern the same way as shown above

$$\begin{aligned} 9 + 7 &= 16 \\ 90 + 70 &= 160 \\ 900 + 700 &= 1,600 \\ 9,000 + 7,000 &= 16,000 \\ 90,000 + 70,000 &= 160,000 \end{aligned}$$

**b.**

$$\begin{aligned} & \quad + 8 = 20 \\ 120 + 80 &= \underline{\hspace{2cm}} \\ & \quad + 800 = 2000 \\ 12,000 + \underline{\hspace{2cm}} &= 20,000 \\ & \quad + 80,000 = 200,000 \\ 1,200,000 + 800,000 &= \underline{\hspace{2cm}} \end{aligned}$$

**c.**

$$\begin{aligned} 2 + 7 &= \underline{\hspace{2cm}} \\ & \quad + 70 = 90 \\ 200 + 700 &= \underline{\hspace{2cm}} \\ & \quad + 7,000 = 9,000 \\ 20,000 + \underline{\hspace{2cm}} &= 90,000 \\ & \quad + 700,000 = 900,000 \end{aligned}$$

**d.**

$$\begin{aligned} 8 + \underline{\hspace{2cm}} &= 14 \\ & \quad + 60 = 140 \\ 800 + 600 &= \underline{\hspace{2cm}} \\ 8000 + \underline{\hspace{2cm}} &= 14,000 \\ & \quad + 60,000 = 140,000 \\ 1800,000 + 600,000 &= \underline{\hspace{2cm}} \end{aligned}$$

**e.**

$$\begin{aligned} 9 + \underline{\hspace{2cm}} &= 17 \\ 90 + \underline{\hspace{2cm}} &= 170 \\ & \quad + 800 = 1,700 \\ 9,000 + 8,000 &= \underline{\hspace{2cm}} \\ & \quad + 80,000 = 170,000 \\ 900,000 + \underline{\hspace{2cm}} &= 1,700,000 \end{aligned}$$

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**Example : a)**

$$\underline{\quad} + 7 = 16$$

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$$\underline{\quad} + 7,000 = 16,000$$

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Let's first of all form an equation for the first expression

$$? + 7 = 16$$

$$? = 16 - 7$$

$$? = 9 \quad \text{So, } ? = 9$$

Now, complete the pattern the same way as shown above

$$9 + 7 = 16$$

$$90 + 70 = 160$$

$$900 + 700 = 1,600$$

$$9,000 + 7,000 = 16,000$$

$$90,000 + 70,000 = 160,000$$

**b.**  $12 + 8 = 20$

$120 + 80 = 200$

$1,200 + 800 = 2,000$

$12,000 + 8,000 = 20,000$

$120,000 + 80,000 = 200,000$

$1,200,000 + 800,000 = 2,000,000$

**c.**  $2 + 7 = 9$

$20 + 70 = 90$

$200 + 700 = 900$

$2,000 + 7,000 = 9,000$

$20,000 + 70,000 = 90,000$

$200,000 + 700,000 = 900,000$

**d.**  $8 + 6 = 14$

$80 + 60 = 140$

$800 + 600 = 1,400$

$8,000 + 6,000 = 14,000$

$80,000 + 60,000 = 140,000$

$800,000 + 600,000 = 1,400,000$

**e.**  $9 + 8 = 17$

$90 + 80 = 170$

$900 + 800 = 1,700$

$9,000 + 8,000 = 17,000$

$90,000 + 80,000 = 170,000$

$900,000 + 800,000 = 1,700,000$