

**Evaluate: Geometric Series**

Evaluate each geometric series.

1) 
$$\sum_{k=1}^{12} (4 \cdot 2^{k-1})$$

2) 
$$\sum_{u=1}^{10} (2 \cdot 3^{u+1})$$

3) 
$$\sum_{b=1}^{13} (\sqrt{5})^b$$

**PREVIEW**

$\cdot 8^{p-1}$

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5) 
$$\sum_{y=1}^7 \left(\frac{3}{5}\right)^y$$

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7) 
$$\sum_{x=1}^9 \left(-\frac{1}{3} \cdot 6^x\right)$$

8) 
$$\sum_{h=1}^{11} (0.5 \cdot 2^{h-1})$$

**Evaluate: Geometric Series**

Evaluate each geometric series.

1)  $\sum_{k=1}^{12} (4 \cdot 2^{k-1})$

**16380**

2)  $\sum_{u=1}^{10} (2 \cdot 3^{u+1})$

**531432**

3)  $\sum_{b=1}^{13} (\sqrt{5})^b$

**5(19531 -**

5)  $\sum_{y=1}^7 \left(\frac{3}{5}\right)^y$

 **$\frac{37969}{15625}$  or**

7)  $\sum_{x=1}^9 \left(-\frac{1}{3} \cdot 6^x\right)$

**-4031078**

8)  $\sum_{h=1}^{11} (0.5 \cdot 2^{h-1})$

**1023.5**

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 **$\cdot 8^{p-1}$** **767****870**