



## 9 Heuristic

# Looking for a Pattern

1 Find the value of  $4 + 6 + 8 + 10 + 12 + 14$ .

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2 Find the value of  $2 + 3 + 4 + 5 + 6 + 7 + 8$ .

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3 Find the value of  $3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$ .

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4 Find the value of  $5 + 6 + 7 + 8 + 9 + 10 + 11$ .

**Solutions:**

1. There are 3 pairs of 18.  
 $3 \times 18 = 54$   
2. There are 3 pairs of 10.  
 $3 \times 10 = 30$   
 $30 + 5 = 35$

3. There are 4 pairs of 13.  
 $4 \times 13 = 52$   
4. There are 3 pairs of 16.  
 $3 \times 16 = 48$   
 $48 + 8 = 56$