## INPUT - OUTPUT TABLES

Complete each input-output table.

1. | Input | Output |
| :---: | :---: |
| 1 | 3 |
| 3 | 7 |
| 5 | 11 |
| 6 | 13 |

Rule: Multiply by 2, add 1
2.

| $x$ | $y$ |
| :---: | :---: |
| 18 | 7.2 |
| 22 | 8.8 |
| 36 | 14.4 |
| 50 | 20 |

Rule: Divide by 2.5
3.

| $x$ | $y$ |
| :---: | :---: |
| 1 | 7 |
| 2 | 9 |
| 4 | 13 |
| 6 | 17 |

Rule: Multiply by 2 , add 5

Find the rule and complete each input-output table.


BUT $1 \times 2$ = 2, NOT 5. HOW DOES 2 CHANGE TO 5 ? HOW ABOUT ADDING 3 ? SO THE RULE MIGHT BE: MULTIPLY BY 2, ADD 3. TRY THIS ON THE OTHER VALUES TO SEE IF IT IS CORRECT.
$3 \times 2=6+3=9$
$4 \times 2=8+3=11$
Rule: Multiply by 2 , add $3 \checkmark$
6.

| $\boldsymbol{x}$ | $\boldsymbol{y}$ |
| :---: | :---: |
| $\mathbf{1}$ | 3 |
| 3 | 13 |
| 7 | 33 |
| 10 | 48 |

Rule: Multiply by 5 , subtract by 2
7. William is paid $50 \%$ more money than Harold, and receives an additional $\$ 2,500$ sales bonus at the end of every year. Below is an input-output table showing the total amount each person made over the past 7 years. Complete the table by filling in the empty spaces.

Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 Year 7

| Input | Harold's wages | $\$ 25,000$ | $\$ 28,000$ | $\$ 31,000$ | $\$ 35,000$ | $\$ 38,000$ | $\$ 39,000$ | $\$ 42,000$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Output | William's wages | $\$ 40,000$ | $\$ 44,500$ | $\$ 49,000$ | $\$ 55,000$ | $\$ 59,500$ | $\$ 61,000$ | $\$ 65,500$ |

