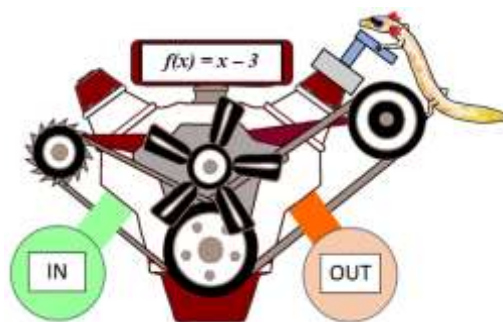




# INPUT OUTPUT FUNCTION TABLES SHEET 4A

Find the value of  $f(x)$  in each of these function machines.



1)  $f(x) = x - 4$

| $x$            | $f(x)$ |
|----------------|--------|
| 6              |        |
| 21             |        |
| 15             |        |
| 37             |        |
| $6\frac{1}{2}$ |        |
| $9\frac{1}{4}$ |        |

2)  $f(x) = 6x$

| $x$ | $f(x)$ |
|-----|--------|
| 5   |        |
| 11  |        |
| 6   |        |
| 12  |        |
| 9   |        |
| 0   |        |

3)  $f(x) = \frac{1}{2}x$

| $x$ | $f(x)$ |
|-----|--------|
| 12  |        |
| 26  |        |
| 11  |        |
| 19  |        |
| 54  |        |
| 37  |        |

4)  $f(x) = x \div 3$

| $x$ | $f(x)$ |
|-----|--------|
| 27  |        |
| 36  |        |
| 18  |        |
| 42  |        |
| 60  |        |
| 15  |        |

5)  $f(x) = 2x + 1$

| $x$ | $f(x)$ |
|-----|--------|
| 4   |        |
| 9   |        |
| 12  |        |
| 0   |        |
| 7   |        |
| 15  |        |

6)  $f(x) = 20 - x$

| $x$            | $f(x)$ |
|----------------|--------|
| 16             |        |
| 3              |        |
| 11             |        |
| $5\frac{1}{2}$ |        |
| $8\frac{1}{2}$ |        |
| $3\frac{1}{4}$ |        |

7)  $f(x) = 3x + 5$

|     |   |    |   |    |    |
|-----|---|----|---|----|----|
| In  | 5 | 12 | 9 | 20 | 11 |
| Out |   |    |   |    |    |

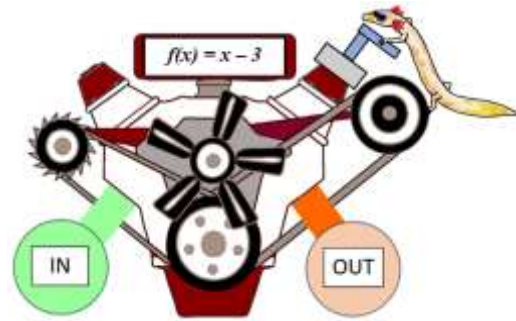
8)  $f(x) = \frac{1}{4}x$

|     |   |    |    |    |    |
|-----|---|----|----|----|----|
| In  | 8 | 20 | 32 | 48 | 64 |
| Out |   |    |    |    |    |



# INPUT OUTPUT FUNCTION TABLES SHEET 4A ANSWERS

Find the value of  $f(x)$  in each of these function machines.



1)  $f(x) = x - 4$

| $x$            | $f(x)$                           |
|----------------|----------------------------------|
| 6              | <u>2</u>                         |
| 21             | <u>17</u>                        |
| 15             | <u>11</u>                        |
| 37             | <u>33</u>                        |
| $6\frac{1}{2}$ | <u><math>2\frac{1}{2}</math></u> |
| $9\frac{1}{4}$ | <u><math>5\frac{1}{4}</math></u> |

2)  $f(x) = 6x$

| $x$ | $f(x)$    |
|-----|-----------|
| 5   | <u>30</u> |
| 11  | <u>66</u> |
| 6   | <u>36</u> |
| 12  | <u>72</u> |
| 9   | <u>54</u> |
| 0   | <u>0</u>  |

3)  $f(x) = \frac{1}{2}x$

| $x$ | $f(x)$                            |
|-----|-----------------------------------|
| 12  | <u>6</u>                          |
| 26  | <u>13</u>                         |
| 11  | <u><math>5\frac{1}{2}</math></u>  |
| 19  | <u><math>9\frac{1}{2}</math></u>  |
| 54  | <u>27</u>                         |
| 37  | <u><math>18\frac{1}{2}</math></u> |

4)  $f(x) = x \div 3$

| $x$ | $f(x)$    |
|-----|-----------|
| 27  | <u>9</u>  |
| 36  | <u>12</u> |
| 18  | <u>6</u>  |
| 42  | <u>14</u> |
| 60  | <u>20</u> |
| 15  | <u>5</u>  |

5)  $f(x) = 2x + 1$

| $x$ | $f(x)$    |
|-----|-----------|
| 4   | <u>9</u>  |
| 9   | <u>19</u> |
| 12  | <u>25</u> |
| 0   | <u>1</u>  |
| 7   | <u>15</u> |
| 15  | <u>31</u> |

6)  $f(x) = (20 - x)$

| $x$            | $f(x)$                            |
|----------------|-----------------------------------|
| 16             | <u>4</u>                          |
| 3              | <u>17</u>                         |
| 11             | <u>9</u>                          |
| $5\frac{1}{2}$ | <u><math>14\frac{1}{2}</math></u> |
| $8\frac{1}{2}$ | <u><math>11\frac{1}{2}</math></u> |
| $3\frac{1}{4}$ | <u><math>16\frac{3}{4}</math></u> |

7)  $f(x) = 3x + 5$

| In  | 5         | 12        | 9         | 20        | 11        |
|-----|-----------|-----------|-----------|-----------|-----------|
| Out | <u>20</u> | <u>41</u> | <u>32</u> | <u>65</u> | <u>38</u> |

8)  $f(x) = \frac{1}{4}x$

| In  | 8        | 20       | 32       | 48        | 64        |
|-----|----------|----------|----------|-----------|-----------|
| Out | <u>2</u> | <u>5</u> | <u>8</u> | <u>12</u> | <u>16</u> |