## Multiplying Facts 3, 4 and 6 (A)

Find each product.

| 5 | 1 | 6 | 12 | 12 | 6 | 11 | 11 | 4 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | +4 | +6 | +6 | +4 | +6 | $\times 3$ | +3 | $\times 6$ | $\times 4$ |
| 12 | 8 | 9 | 7 | 11 | 1 | 1 | 6 | 6 | 7 |
| $\times 3$ | +6 | $\times 3$ | +6 | +4 | $\times 3$ | +6 | +6 | +4 | $\times 3$ |
| 8 | 10 | 4 | 10 | 5 | 12 | 8 | 2 | 6 | 10 |
| $\times 3$ | +4 | $\times 3$ | +4 | +3 | $\times 3$ | +3 | +4 | $\times 3$ | +6 |
| 12 | 2 | 8 | 11 | 1 | 8 | 3 | 5 | 4 | 8 |
| $\times 3$ | $\times 4$ | +6 | +3 | +3 | +3 | $\times 3$ | +6 | +6 | +6 |
| 10 | 7 | 8 | 2 | 7 | 6 | 11 | 5 | 8 | 9 |
| $\times 3$ | +4 | $\times 3$ | +4 | +4 | $\times 3$ | +6 | +4 | $\times 3$ | $\times 3$ |
| 7 | 1 | 3 | 10 | 11 | 1 | 8 | 7 | 10 | 5 |
| $\times 6$ | $\times 3$ | $\times 4$ | $\times 3$ | $\times 6$ | $\times 3$ | $\times 3$ | +4 | $\times 3$ | $\times 4$ |


| 7 | 6 | 3 | 5 | 7 | 1 | 2 | 7 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 6$ | $\times 3$ | $\times 4$ | $\times 6$ | $\times 6$ | $\times 4$ | $\times 3$ | $\times 4$ |
| $\times 4$ | $\times 4$ |  |  |  |  |  |  |


| 9 | 11 | 10 | 6 | 3 | 5 | 9 | 3 | 10 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | +6 | $\times 3$ | $\times 3$ | +4 | +6 | +4 | +4 | +4 | $\times 6$ |


| 12 | 11 | 7 | 7 | 5 | 7 | 3 | 8 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 6$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 4$ | $\times 6$ |


| 4 | 12 | 7 | 9 | 7 | 2 | 3 | 7 | 4 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |$\quad 7$

## Multiplying Facts 3, 4 and 6 (A) Answers

Find each product.

| 5 | 1 | 6 | 12 | 12 | 6 | 11 | 11 | 4 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | $\times 4$ | +6 | +6 | $\times 4$ | +6 | $\times 3$ | +3 | +6 | +4 |
| 30 | 4 | 36 | 72 | 48 | 36 | 33 | 33 | 24 | 16 |
| 12 | 8 | 9 | 7 | 11 | 1 | 1 | 6 | 6 | 7 |
| +3 | +6 | +3 | +6 | $\times 4$ | $\times 3$ | $\times 6$ | +6 | $\times 4$ | +3 |
| 36 | 48 | 27 | 42 | 44 | 3 | 6 | 36 | 24 | 21 |
| 8 | 10 | 4 | 10 | 5 | 12 | 8 | 2 | 6 | 10 |
| + 3 | $\times 4$ | $\times 3$ | $\times 4$ | +3 | +3 | +3 | $\times 4$ | $\times 3$ | $\times 6$ |
| 24 | 40 | 12 | 40 | 15 | 36 | 24 | 8 | 18 | 60 |
| 12 | 2 | 8 | 11 | 1 | 8 | 3 | 5 | 4 | 8 |
| +3 | $\times 4$ | +68 | $\times 3$ | $\times 3$ | +3 | $\times 3$ | +6 | +6 | +66 |
| 36 | 8 | 48 | 33 | 3 | 24 | 9 | 30 | 24 | 48 |
| 10 | 7 | 8 | 2 | 7 | 6 | 11 | 5 | 8 | 9 |
| +3 | $\times 4$ | + 3 | $\times 4$ | $\underline{\times 4}$ | + 3 | $\times 6$ | $\times 4$ | $\times 3$ | +3 |
| 30 | 28 | 24 | 8 | 28 | 18 | 66 | 20 | 24 | 27 |
| 7 | 1 | 3 | 10 | 11 | 1 | 8 | 7 | 10 | 5 |
| $\times 6$ | $\times 3$ | $\times 4$ | $\times 3$ | $\times 6$ | $\times 3$ | +3 | $\times 4$ | $\times 3$ | +4 |
| 42 | 3 | 12 | 30 | 66 | 3 | 24 | 28 | 30 | 20 |
| 7 | 6 | 3 | 5 | 7 | 1 | 2 | 7 | 4 | 2 |
| $\times 6$ | $\times 3$ | $\times 4$ | +6 | $\times 6$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 4$ | $\times 4$ |
| 42 | 18 | 12 | 30 | 42 | 4 | 6 | 28 | 16 | 8 |
| 9 | 11 | 10 | 6 | 3 | 5 | 9 | 3 | 10 | 7 |
| $\times 6$ | $\times 6$ | $\times 3$ | $\times 3$ | $\times 4$ | +6 | $\times 4$ | $\times 4$ | $\times 4$ | +6 |
| 54 | 66 | 30 | 18 | 12 | 30 | 36 | 12 | 40 | 42 |
| 12 | 11 | 7 | 7 | 5 | 7 | 3 | 8 | 8 | 11 |
| $\times 6$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 3$ | $\underline{\times 4}$ | $\times 4$ | +6 | +6 | $\times 4$ |
| 72 | 44 | 21 | 28 | 15 | 28 | 12 | 48 | 48 | 44 |
| 4 | 12 | 7 | 9 | 7 | 2 | 3 | 7 | 4 | 7 |
| $\times 6$ | +3 | $\times 3$ | $\times 3$ | $\times 6$ | $\times 6$ | $\times 3$ | +6 | $\times 3$ | $\times 4$ |
| 24 | 36 | 21 | 27 | 42 | 12 | 9 | 42 | 12 | 28 |

## Multiplying Facts 3, 4 and 6 (B)

Find each product.

| 2 | 8 | 3 | 8 | 4 | 6 | 12 | 2 | 9 | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 4$ | +4 | +6 | +3 | $\times 4$ | $\times 3$ | +6 | +4 | $\times 3$ | $\times 3$ |
| 1 | 12 | 10 | 4 | 1 | 6 | 4 | 6 | 12 | 10 |
| $\times 6$ | $\times 3$ | $\times 3$ | $\times 3$ | +4 | +6 | +6 | +6 | $\times 3$ | +6 |
| 6 | 10 | 3 | 11 | 1 | 4 | 6 | 9 | 3 | 6 |
| $\times 3$ | $\times 6$ | $\times 4$ | $\times 3$ | $\times 3$ | $\times 3$ | +4 | +4 | +6 | + 4 |


| 7 | 11 | 11 | 4 | 10 | 2 | 2 | 3 | 11 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |$\quad 3$


| 12 | 8 | 4 | 1 | 10 | 8 | 9 | 12 | 7 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |$\quad 8$


| 10 | 9 | 4 | 6 | 4 | 1 | 3 | 2 | 11 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | | 10 |
| ---: |
| $\times 3$ | | $\times 3$ |
| ---: |


| 6 | 10 | 8 | 10 | 7 | 4 | 12 | 8 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\times 6$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 4$ | $\times 4$ | $\times 4$ |


| 5 | 8 | 1 | 8 | 5 | 7 | 9 | 3 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | +3 | +6 | +3 | $\times 3$ | +6 | +6 | +4 | +6 | $\times 3$ |
| 5 | 12 | 4 | 9 | 12 | 10 | 10 | 1 | 5 | 6 |
| +6 | $\times 3$ | $\times 6$ | $\times 4$ | +3 | +6 | +4 | +4 | $\times 4$ | $\times 6$ |

## Multiplying Facts 3, 4 and 6 (B)

Find each product.

| 2 | 8 | 3 | 8 | 4 | 6 | 12 | 2 | 9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 4$ | $\times 4$ | $\times 6$ | $\times 3$ | +4 | $\times \underline{1}$ | $\times 6$ | $\times 4$ | 3 | + 3 |
| 8 | 32 | 18 | 24 | 16 | 18 | 72 | 8 | 27 | 15 |
| 1 | 12 | 10 | 4 | 1 | 6 | 4 | 6 | 12 | 10 |
| +6 | $\times 3$ | $\times 3$ | $\times 3$ | $\times 4$ | +6 | $\times 6$ | +6 | $\times 3$ | $\times 6$ |
| 6 | 36 | 30 | 12 | 4 | 36 | 24 | 36 | 36 | 60 |
| 6 | 10 | 3 | 11 | 1 | 4 | 6 | 9 | 3 |  |
| $\underline{\times 3}$ | $\times 6$ | $\times 4$ | +3 | + 3 | + 3 | $\times 4$ | $\times 4$ | $\times 6$ | $\times 4$ |
| 18 | 60 | 12 | 33 | 3 | 12 | 24 | 36 | 18 | 24 |
| 7 | 11 | 11 | 4 | 10 | 2 | 2 | 3 | 11 |  |
| $\times 4$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 4$ | $\times 4$ | $\times 6$ | +4 | $\times 3$ | $\times$ |
| 28 | 44 | 33 | 16 | 40 | 8 | 12 | 12 | 33 | 12 |
| 12 | 8 | 4 | 1 | 10 | 8 | 9 | 12 | 7 |  |
| $\times 6$ | $\times 3$ | $\times 3$ | +6 | $\times 3$ | $\times 3$ | $\times 6$ | $\times 3$ | $\times 6$ | +6 |
| 72 | 24 | 12 | 6 | 30 | 24 | 54 | 36 | 42 | 48 |
| 10 | 9 | 4 | 6 | 4 | 1 | 3 | 2 | 11 | 10 |
| $\times 3$ | $\times 3$ | $\times 6$ | +6 | $\times 3$ | $\times 1$ | +3 | $\times 4$ | $\underline{\times 3}$ | $\times 6$ |
| 30 | 27 | 24 | 36 | 12 | 3 | 9 | 8 | 33 | 60 |
| 10 | 8 | 6 | 12 | 1 | 6 | 11 | 10 | 2 |  |
| $\times 4$ | -4 | +6 | $\times 6$ | $\times 4$ | - 4 | +3 | $\times 6$ | $\times 6$ | +6 |
| 40 | 32 | 36 | 72 | 4 | 24 | 33 | 60 | 12 | 54 |
| 6 | 10 | 8 | 10 | 7 | 4 | 12 | 8 | 10 |  |
| $\times 3$ | $\times 6$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 4$ | $\times 4$ | +4 | $\times 3$ | $\times 4$ |
| 18 | 60 | 32 | 30 | 28 | 16 | 48 | 32 | 30 |  |
| 5 | 8 | 1 | 8 | 5 | 7 | 9 | 3 | 9 | 10 |
| - 6 | $\times 3$ | +6 | +3 | $\times 3$ | $\times 6$ | $\times 6$ | $\times 4$ | $\times 6$ | $\times 3$ |
| 30 | 24 | 6 | 24 | 15 | 42 | 54 | 12 | 54 | 30 |
| 5 | 12 | 4 | 9 | 12 | 10 | 10 | 1 | 5 |  |
| $\underline{\times 6}$ | $\underline{\times 3}$ | +6 | +4 | $\times$ | $\times 6$ | $\times 4$ | $\times 4$ | +4 | $\times 6$ |

## Multiplying Facts 3, 4 and 6 (C)

Find each product.

| 8 | 11 | 12 | 4 | 5 | 11 | 11 | 9 | 9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | $\times 6$ | $\times 6$ | $\times 4$ | $\underline{\times 6}$ | $\times 6$ | $\times 4$ | $\times 4$ | +6 | $\times 6$ |
| 4 | 7 | 11 | 2 | 1 | 12 | 5 | 2 | 1 |  |
| $\times 3$ | $\times 3$ | $\times 3$ | $\times 3$ | $\underline{\times 4}$ | +4 | +6 | $\times 4$ | +4 | $\times 3$ |
| 8 | 9 | 2 | 12 | 7 | 11 | 11 | 9 | 12 |  |
| +3 | $\times 4$ | $\times 6$ | $\times 3$ | $\underline{\times}$ | $\underline{\times}$ | +6 | $\times 3$ | +3 |  |


| 6 | 5 | 4 | 2 | 1 | 8 | 2 | 1 | 6 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | | 4 |
| ---: |
| $\times 6$ |$\underline{\times 6} \quad \underline{\times 4} \quad \underline{\times 4} \quad \underline{\times 3} \quad \underline{6} \quad \underline{6} \quad \underline{6} \quad \underline{6} \quad \underline{3}$


| 10 | 12 | 6 | 10 | 8 | 7 | 10 | 3 | 3 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | +6 | $\times 4$ | $\times 3$ | 8 $\times 6$ | +3 | $\times 6$ | +4 | +6 |  |


| 7 | 10 | 4 | 8 | 12 | 5 | 3 | 10 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 4$ | $\underline{4}$ | $\underline{3}$ | $\underline{\times 4}$ | $\underline{\times 6}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 6}$ |
| $\underline{\times 3}$ |  |  |  |  |  |  |  |  |


| 2 | 4 | 8 | 3 | 5 | 11 | 3 | 9 | 3 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | | 3 |
| ---: |
| $\times 6$ |


| 7 | 6 | 12 | 2 | 11 | 10 | 2 | 4 | 7 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 6$ | $\underline{\times 6}$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ |
|  |  |  |  |  |  |  |  |  |
| 9 | 10 | 6 | 7 | 12 | 8 | 2 | 2 | 5 |
| $\times 3$ | $\underline{\times 6}$ | $\underline{\times 6}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 3}$ |
| $\underline{\times 3}$ |  |  |  |  |  |  |  |  |

## Multiplying Facts 3, 4 and 6 (C)

Find each product.

| 8 | 11 | 12 | 4 | 5 | 11 | 11 | 9 | 9 | 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | $\times 6$ | +6 | +4 | +6 | +6 | +4 | + 4 | +6 | +6 |
| 48 | 66 | 72 | 16 | 30 | 66 | 44 | 36 | 54 | 54 |
| 4 | 7 | 11 | 2 | 1 | 12 | 5 | 2 | 1 | 6 |
| $\times 3$ | $\times 3$ | $\times 3$ | $\times 3$ | $\times 4$ | $\times 4$ | +6 | $\times 4$ | $\times 4$ | $\times 3$ |
| 12 | 21 | 33 | 6 | 4 | 48 | 30 | 8 | 4 | 18 |
| 8 | 9 | 2 | 12 | 7 | 11 | 11 | 9 | 12 | 5 |
| + 3 | $\times 4$ | +6 | $\times 3$ | $\times 3$ | $\times 6$ | +6 | + 3 | +3 | $\underline{\times}$ |
| 24 | 36 | 12 | 36 | 21 | 66 | 66 | 27 | 36 | 20 |
| 6 | 5 | 4 | 2 | 1 | 8 | 2 | 1 | 6 | 4 |
| +6 | +6 | $\times 4$ | $\times 4$ | $\times 3$ | +6 | +6 | +6 | +6 | $\times 3$ |
| 36 | 30 | 16 | 8 | 3 | 48 | 12 | 6 | 36 | 12 |
| 10 | 12 | 6 | 10 | 8 | 7 | 10 | 3 | 3 | 2 |
| $\times 3$ | $\underline{\times 6}$ | $\times 4$ | $\times 3$ | 8 $\times 6$ | $\underline{\times 3}$ | +6 | +4 | $\begin{array}{r} \\ \times 6 \\ \hline\end{array}$ | $\times 6$ |
| 30 | 72 | 24 | 30 | 48 | 21 | 60 | 12 | 18 | 12 |
| 7 | 10 | 4 | 8 | 12 | 5 | 3 | 10 | 12 | 12 |
| $\times 4$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 6$ | + 3 | $\underline{\times 3}$ | $\times 3$ | +6 | $\times 3$ |
| 28 | 40 | 12 | 32 | 72 | 15 | 9 | 30 | 72 | 36 |
| 2 | 4 | 8 | 3 | 5 | 11 | 3 | 9 | 3 | 3 |
| $\times 6$ | $\times 3$ | +6 | +6 | $\times 4$ | $\times 4$ | +4 | $\times 3$ | +6 | $\times 4$ |
| 12 | 12 | 48 | 18 | 20 | 44 | 12 | 27 | 18 | 12 |
| 12 | 8 | 11 | 11 | 10 | 2 | 8 | 12 | 7 | 7 |
| $\times 6$ | $\times 3$ | $\times 6$ | $\times 3$ | +6 | $\times 4$ | +3 | $\times 4$ | $\times 3$ | $\times 6$ |
| 72 | 24 | 66 | 33 | 60 | 8 | 24 | 48 | 21 | 42 |
| 7 | 6 | 12 | 2 | 11 | 10 | 2 | 4 | 7 | 11 |
| +6 | +6 | $\times 4$ | $\times 4$ | $\times 3$ | +3 | $\times 3$ | $\times 4$ | +3 | $\times 6$ |
| 42 | 36 | 48 | 8 | 33 | 30 | 6 | 16 | 21 | 66 |
| 9 | 1 | 10 | 6 | 7 | 12 | 8 | 2 | 2 | 5 |
| $\times 3$ | +6 | $\times 6$ | + 3 | $\underline{\times 4}$ | + 3 | +4 | $\times 3$ | $\times 3$ | $\times 3$ |
| 27 | 6 | 60 | 18 | 28 | 36 | 32 | 6 | 6 | 15 |

## Multiplying Facts 3, 4 and 6 (D)

Find each product.

| 4 | 11 | 12 | 3 | 12 | 2 | 7 | 1 | 7 | 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 6$ | +3 | $\times 4$ | +3 | $\times 3$ | +4 | $\times 3$ | $\underline{\times}$ | +4 | +4 |
| 8 | 4 | 10 | 4 | 9 | 7 | 5 | 11 | 10 | 4 |
| +6 | $\times 3$ | $\times 4$ | $\times 4$ | +6 | +6 | $\times 4$ | $\times 3$ | +6 | $\times 3$ |
| 7 | 7 | 9 | 10 | 12 | 5 | 1 | 2 | 11 | 1 |
| +6 | +6 | $\times 4$ | +6 | $\times 6$ | +3 | $\times 4$ | $\times 6$ | +3 | +6 |
| 12 | 12 | 8 | 9 | 8 | 4 | 6 | 7 | 9 | 4 |
| $\times 6$ | +4 | +6 | + 3 | +6 | $\times 4$ | +6 | +3 | $\times 4$ | $\times 6$ |
| 12 | 5 | 4 | 1 | 5 | 9 | 2 | 6 | 7 | 12 |
| $\times 6$ | +6 | $\times 3$ | $\underline{\times 4}$ | $\times 3$ | +6 | $\times 6$ | $\times 3$ | +6 | $\times 4$ |
| 10 | 3 | 3 | 5 | 1 | 12 | 5 | 4 | 4 | 6 |
| $\times 3$ | +4 | $\times 3$ | +3 | $\times 6$ | $\times$ | $\times 4$ | $\times 4$ | $\times 3$ | $\times 6$ |
| 1 | 5 | 6 | 4 | 10 | 9 | 10 | 3 | 6 | 11 |
| $\times 4$ | +6 | $\times 3$ | $\times 4$ | $\times 4$ | +4 | $\times 4$ | $\underline{\times 6}$ | +6 | $\times 3$ |
| 9 | 8 | 10 | 3 | 12 | 6 | 11 | 3 | 3 | 2 |
| $\times 4$ | +6 | $\times 6$ | +4 | $\times 6$ | $\times 4$ | $\times 4$ | $\times 3$ | +3 | $\times 4$ |
| 4 | 2 | 7 | 4 | 2 | 4 | 3 | 9 | 12 | 12 |
| $\times 3$ | $\times 4$ | $\times 4$ | $\times 3$ | $\times 3$ | $\times 3$ | $\times 3$ | $\times 4$ | $\times 4$ | $\times 3$ |
| 7 | 4 | 7 | 5 | 3 | 5 | 8 | 12 | 7 | 5 |
| +6 | $\underline{\times}$ | $\underline{\times 6}$ | +6 | $\underline{\times}$ | +6 | $\times 3$ | $\times 3$ | +6 | $\underline{\times}$ |

## Multiplying Facts 3, 4 and 6 (D)

Find each product.

| 4 | 11 | 12 | 3 | 12 | 2 | 7 | 1 | 7 | 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | $\times 3$ | $\times 4$ | $\times 3$ | $\times 3$ | $\times 4$ | $\times 3$ | +3 | $\times 4$ | $\times 4$ |
| 24 | 33 | 48 | 9 | 36 | 8 | 21 | 3 | 28 | 36 |
| 8 | 4 | 10 | 4 | 9 | 7 | 5 | 11 | 10 | 4 |
| +6 | $\times 3$ | $\times 4$ | $\times 4$ | +6 | +6 | +4 | +3 | +6 | $\times 3$ |
| 48 | 12 | 40 | 16 | 54 | 42 | 20 | 33 | 60 | 12 |
| 7 | 7 | 9 | 10 | 12 | 5 | 1 | 2 | 11 | 1 |
| $\times 6$ | +6 | $\times 4$ | $\times 6$ | $\times 6$ | $\times 3$ | $\times 4$ | $\times 6$ | +3 | +6 |
| 42 | 42 | 36 | 60 | 72 | 15 | 4 | 12 | 33 | 6 |
| 12 | 12 | 8 | 9 | 8 | 4 | 6 | 7 | 9 | 4 |
| $\times 6$ | $\times 4$ | +6 | + 3 | +66 | $\underline{\times 4}$ | +6 | $\times 3$ | $\times 4$ | +6 |
| 72 | 48 | 48 | 27 | 48 | 16 | 36 | 21 | 36 | 24 |
| 12 | 5 | 4 | 1 | 5 | 9 | 2 | 6 | 7 | 12 |
| +6 | +6 | $\times 3$ | $\times 4$ | +3 | +6 | +6 | + 3 | +6 | $\times 4$ |
| 72 | 30 | 12 | 4 | 15 | 54 | 12 | 18 | 42 | 48 |
| 10 | 3 | 3 | 5 | 1 | 12 | 5 | 4 | 4 | 6 |
| $\times 3$ | $\times 4$ | $\times 3$ | +3 | +6 | $\times 4$ | +4 | $\times 4$ | $\times 3$ | +6 |
| 30 | 12 | 9 | 15 | 6 | 48 | 20 | 16 | 12 | 36 |
| 1 | 5 | 6 | 4 | 10 | 9 | 10 | 3 | 6 | 11 |
| $\times 4$ | +6 | $\times 3$ | $\times 4$ | $\times 4$ | $\times 4$ | +4 | +6 | +6 | $\times 3$ |
| 4 | 30 | 18 | 16 | 40 | 36 | 40 | 18 | 36 | 33 |
| 9 | 8 | 10 | 3 | 12 | 6 | 11 | 3 | 3 | 2 |
| $\times 4$ | +6 | $\times 6$ | $\times 4$ | $\times 6$ | +4 | +4 | $\times 3$ | +3 | 4 |
| 36 | 48 | 60 | 12 | 72 | 24 | 44 | 9 | 9 | 8 |
| 4 | 2 | 7 | 4 | 2 | 4 | 3 | 9 | 12 | 12 |
| $\times 3$ | $\times 4$ | $\underline{\times 4}$ | +3 | $\times 3$ | $\times 3$ | $\times 3$ | +4 | +4 | $\times 3$ |
| 12 | 8 | 28 | 12 | 6 | 12 | 9 | 36 | 48 | 36 |
| 7 | 4 | 7 | 5 | 3 | 5 | 8 | 12 | 7 | 5 |
| $\times 6$ | $\times 3$ | +6 | +6 | $\times 3$ | +6 | + 3 | $\underline{\times}$ | $\times 6$ | $\times 3$ |
| 42 | 12 | 42 | 30 | 9 | 30 | 24 | 36 | 42 | 15 |

## Multiplying Facts 3, 4 and 6 (E)

Find each product.

| 1 | 1 | 4 | 1 | 2 | 1 | 7 | 9 | 10 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 3$ | +3 | +4 | +6 | +4 | $\times 3$ | +4 | +4 | +6 | $\times 3$ |
| 3 | 1 | 12 | 3 | 12 | 11 | 3 | 7 | 3 | 10 |
| $\times 3$ | $\times 3$ | $\times 3$ | +6 | $\times 3$ | +6 | +4 | +6 | +6 | $\times 3$ |
| 2 | 4 | 7 | 3 | 8 | 8 | 9 | 5 | 7 | 5 |
| +6 | $\times 4$ | $\times 3$ | $\times 3$ | +6 | +4 | +6 | $\times 3$ | $\times 3$ | +6 |


| 1 | 3 | 9 | 7 | 12 | 11 | 10 | 5 | 8 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |$\quad 4$


| 8 | 4 | 4 | 11 | 11 | 5 | 10 | 3 | 11 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +3 | +4 | $\times 4$ | +3 | +4 | +3 | +3 | +6 | +6 | +6 |
| 5 | 3 | 6 | 12 | 6 | 12 | 3 | 10 | 8 | 3 |
| +3 | $\times 3$ | +6 | +4 | +6 | $\times 3$ | +4 | +4 | +4 | +3 |


| 10 | 8 | 11 | 10 | 2 | 12 | 9 | 5 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 6$ | $\times 3$ | $\times 3$ | $\times 3$ | $\times 4$ | $\times 4$ | $\times 4$ | $\times 4$ |

$\left.\begin{array}{rrrrrrrrr}5 & 11 & 6 & 7 & 3 & 9 & 4 & 9 & 4\end{array}\right) 12$

| 4 | 5 | 2 | 11 | 4 | 6 | 3 | 1 | 4 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +4 | +6 | $\times 3$ | +4 | $\times 3$ | $\times 3$ | +6 | $\times 3$ | +4 | +6 |


| 1 | 3 | 12 | 3 | 1 | 3 | 12 | 9 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 4$ | $\times 6$ | $\times 4$ | $\times 4$ |

## Multiplying Facts 3, 4 and 6 (E)

Find each product.


## Multiplying Facts 3, 4 and 6 (F)

Find each product.

| 6 | 11 | 8 | 12 | 4 | 11 | 6 | 11 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{\times 6}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 4}$ |
|  |  |  |  |  |  |  |  |  |
| 1 | 11 | 2 | 6 | 5 | 6 | 5 | 12 | 11 |
| 7 |  |  |  |  |  |  |  |  |
| $\underline{\times 6}$ | $\underline{\times 6}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 6}$ |
|  |  |  | $\underline{\times 3}$ |  |  |  |  |  |
| 5 | 12 | 7 | 7 | 11 | 7 | 4 | 7 | 2 |
| $\times 4$ | $\underline{\times 4}$ | $\underline{\times 6}$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 6}$ |
| $\underline{\times 3}$ |  |  |  |  |  |  |  |  |


| 1 | 3 | 9 | 2 | 1 | 10 | 5 | 5 | 10 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | $\underline{\times 6}$ | $\times 3$ | $\times 3$ | $\underline{\times 4}$ | $\times 4$ | +3 | +4 | $\times 6$ | $\times 4$ |
| 4 | 7 | 10 | 8 | 8 | 12 | 6 | 6 | 1 |  |
| $\times 6$ | $\times 4$ | $\times 4$ | $\begin{array}{r}\times 4 \\ \hline\end{array}$ | $\underline{\times 3}$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 4$ | $\times 3$ |
| 8 | 11 | 12 | 11 | 10 | 1 | 1 | 12 | 11 | 10 |
| $\underline{\times 4}$ | $\times 3$ | +6 | $\times 4$ | +4 | $\times 4$ | $\times 3$ | $\times 3$ | +6 | +6 |


| 10 | 4 | 1 | 12 | 9 | 9 | 9 | 11 | 6 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | | 2 |
| ---: |
| $\times 4$ |$\underline{\times 4} \quad \underline{\times 4} \quad \underline{\times 4} \quad \underline{6} \quad \underline{4} \quad \underline{\times 4} \quad \underline{\times 4} \quad \underline{6} \quad \underline{6}$


| 4 | 2 | 9 | 7 | 9 | 2 | 12 | 5 | 1 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |$\quad 120$


| 7 | 8 | 11 | 11 | 1 | 3 | 5 | 5 | 1 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 4$ |  |  |  |  |  |  |  |  |
| $\times 4$ | $\underline{\times 4}$ | $\underline{\times 6}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 3}$ |
| 5 | 12 | 6 | 1 | 12 | 3 | 7 | 11 | 6 |
| $\times 6$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 6}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ |
| $\underline{\times 6}$ |  |  |  |  |  |  |  |  |

## Multiplying Facts 3, 4 and 6 (F)

Find each product.

| 6 | 11 | 8 | 12 | 4 | 11 | 6 | 11 | 12 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 3$ | $\times 4$ | +4 | $\times 4$ | +6 | +4 | $\times 3$ | $\times 4$ | +4 | $\times 6$ |
| 18 | 44 | 32 | 48 | 24 | 44 | 18 | 44 | 48 | 66 |
| 1 | 11 | 2 | 6 | 5 | 6 | 5 | 12 | 11 | 7 |
| +6 | $\times 6$ | $\times 4$ | $\times 3$ | $\underline{\times 4}$ | + 3 | $\times 4$ | +3 | +6 | $\times 3$ |
| 6 | 66 | 8 | 18 | 20 | 18 | 20 | 36 | 66 | 21 |
| 5 | 12 | 7 | 7 | 11 | 7 | 4 | 7 | 2 | 12 |
| $\underline{\times 4}$ | +4 | +6 | $\underline{\times 4}$ | $\times 4$ | $\underline{\times 4}$ | $\times 4$ | $\times 3$ | +6 | $\times 3$ |
| 20 | 48 | 42 | 28 | 44 | 28 | 16 | 21 | 12 | 36 |
| 1 | 3 | 9 | 2 | 1 | 10 | 5 | 5 | 10 | 6 |
| $\times 6$ | $\underline{\times 6}$ | + 3 | +3 | $\underline{\times 4}$ | $\underline{\times 4}$ | $\times 3$ | +4 | +6 | $\underline{\times 4}$ |
| 6 | 18 | 27 | 6 | 4 | 40 | 15 | 20 | 60 | 24 |
| 4 | 7 | 10 | 8 | 8 | 12 | 6 | 6 | 1 | 7 |
| +6 | $\times 4$ | $\times 4$ | +4 | +3 | +4 | $\times 3$ | +4 | $\times 4$ | $\times 3$ |
| 24 | 28 | 40 | 32 | 24 | 48 | 18 | 24 | 4 | 21 |
| 8 | 11 | 12 | 11 | 10 | 1 | 1 | 12 | 11 | 10 |
| +4 | $\times 3$ | $\times 6$ | $\times 4$ | $\times 4$ | $\times 4$ | $\times 3$ | $\times 3$ | +6 | $\times 6$ |
| 32 | 33 | 72 | 44 | 40 | 4 | 3 | 36 | 66 | 60 |
| 10 | 4 | 1 | 12 | 9 | 9 | 9 | 11 | 6 | 2 |
| $\times 4$ | $\times 4$ | $\times 4$ | $\times 4$ | +6 | +4 | $\times 4$ | $\times 4$ | +6 | $\times 6$ |
| 40 | 16 | 4 | 48 | 54 | 36 | 36 | 44 | 36 | 12 |
| 4 | 2 | 9 | 7 | 9 | 2 | 12 | 5 | 1 | 12 |
| $\times 4$ | $\times 4$ | +6 | $\underline{\times 4}$ | +6 | $\times 3$ | $\times 6$ | $\times 4$ | $\times 3$ | $\times 3$ |
| 16 | 8 | 54 | 28 | 54 | 6 | 72 | 20 | 3 | 36 |
| 7 | 8 | 11 | 11 | 1 | 3 | 5 | 5 | 1 | 11 |
| $\underline{\times 4}$ | $\underline{\times 4}$ | $\times 4$ | $\times 6$ | $\times 4$ | $\times 3$ | $\times 3$ | +4 | +3 | $\times 3$ |
| 28 | 32 | 44 | 66 | 4 | 9 | 15 | 20 | 3 | 33 |
| 5 | 12 | 6 | 1 | 12 | 3 | 7 | 11 | 6 | 3 |
| + 6 | $\times 4$ | +4 | $\times 3$ | $\times 3$ | +6 | $\times 3$ | $\times 4$ | + 3 | +6 |
| 30 | 48 | 24 | 3 | 36 | 18 | 21 | 44 | 18 | 18 |

## Multiplying Facts 3, 4 and 6 (G)

Find each product.

| 3 | 2 | 11 | 12 | 8 | 10 | 2 | 5 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | | 8 |
| ---: |
| $\times 4$ | | $\times 3$ | $\underline{\times 4}$ |
| ---: | ---: |


| 11 | 10 | 2 | 11 | 2 | 2 | 11 | 3 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |


| 7 | 7 | 12 | 3 | 1 | 9 | 10 | 8 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\times 6$ | $\times 3$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 6$ | $\times 4$ |


| 12 | 12 | 11 | 11 | 4 | 9 | 6 | 12 | 7 | 11 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +3 | +4 | +4 | $\times 6$ | +4 | +4 | +4 | +4 | +4 |  |


| 7 | 5 | 4 | 11 | 6 | 12 | 12 | 11 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 4$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 6$ | $\times 6$ | $\times 6$ | $\times 4$ |


| 9 | 9 | 12 | 11 | 11 | 7 | 7 | 11 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\times 6$ | $\times 3$ | $\times 6$ | $\times 3$ | $\times 4$ | $\times 3$ | $\times 6$ | $\times 4$ |


| 6 | 10 | 2 | 4 | 4 | 3 | 4 | 8 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\times 3$ | $\times 3$ | $\times 3$ | $\times 3$ | $\times 6$ | $\times 3$ | $\times 4$ |


| 1 | 1 | 9 | 7 | 6 | 8 | 5 | 7 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\times 4$ | $\times 4$ | $\times 6$ | $\times 6$ | $\times 3$ | $\times 3$ | $\times 3$ |

## Multiplying Facts 3, 4 and 6 (G)

Find each product.

| 3 | 2 | 11 | 12 | 8 | 10 | 2 | 5 | 12 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +4 | $\times 3$ | $\times 4$ | $\times 3$ | $\times 3$ | $\times 3$ | +3 | + 3 | $\times 4$ | - 6 |
| 12 | 6 | 44 | 36 | 24 | 30 | 6 | 15 | 48 | 48 |
| 1 | 9 | 11 | 1 | 4 | 7 | 3 | 11 | 3 |  |
| - 6 | - 4 | +6 | +6 | $\times 3$ | $\times 4$ | + 3 | $\underline{\times 3}$ | $\times 3$ | +3 |
| 6 | 36 | 66 | 6 | 12 | 28 | 9 | 33 | 9 | 27 |
| 5 | 2 | 10 | 1 | 12 | 12 | 12 | 4 | 4 |  |
| - 6 | $\times 6$ | $\times 6$ | + 3 | $\times 6$ | $\times 3$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 4$ |
| 30 | 12 | 60 | 3 | 72 | 36 | 36 | 24 | 16 | 32 |
| 11 | 10 | 12 | 2 | 11 | 2 | 2 | 11 | 3 |  |
| $\underline{\times 3}$ | 6 | $\times 3$ | +6 | $\times 6$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 4$ | $\times$ |
| 33 | 60 | 36 | 12 | 66 | 6 | 12 | 44 | 12 |  |
| 7 | 7 | 12 | 3 | 1 | 9 | 10 | 8 | 10 |  |
| $\times 3$ | $\times 6$ | $\times 3$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 6$ | - 4 | $\times 6$ | $\times 4$ |
| 21 | 42 | 36 | 9 | 6 | 36 | 60 | 32 | 60 |  |
| 12 | 12 | 11 | 11 | 4 | 9 | 6 | 12 | 7 | 11 |
| $\times$ | $\times 4$ | $\times 4$ | $\times 6$ | $\times 1$ | - 4 | - 4 | $\times 4$ | $\times 4$ | $\times 6$ |
| 36 | 48 | 44 | 66 | 16 | 36 | 24 | 48 | 28 | 66 |
| 7 | 5 | 4 | 11 | 6 | 12 | 12 | 11 | 10 |  |
| $\times 4$ | $\times{ }^{-1}$ | $\times 6$ | $\underline{\times 4}$ | $\times 6$ | $\times 6$ | $\times 6$ | $\times 4$ | $\times 4$ | $\times 6$ |
| 28 | 15 | 24 | 44 | 36 | 72 | 72 | 44 | 40 | 54 |
| 9 | 9 | 5 | 12 | 11 | 11 | 7 | 7 | 11 | 12 |
| $\times 3$ | $\times 6$ | $\times 3$ | $\times 6$ | $\times 3$ | $\times 4$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 6$ |
| 27 | 54 | 15 | 72 | 33 | 44 | 21 | 42 | 44 | 72 |
| 6 | 10 | 2 | 4 | 4 | 3 | 4 | 8 | 11 |  |
| $\times 3$ | $\underline{\times}$ | $\times 3$ | $\times 3$ | $\times 3$ | $\times 6$ | $\times 3$ | $\times 4$ | $\times 6$ | $\times 4$ |
| 18 | 30 | 6 | 12 | 12 | 18 | 12 | 32 | 66 | 8 |
| 1 | 1 | 9 | 7 | 6 | 8 | 5 | 7 | 8 | 11 |
| $\times 3$ | $\times 4$ | $\times 4$ | $\times 6$ | $\times 6$ | $\times 3$ | $\times 3$ | $\times 3$ | - 6 | $\times 6$ |
|  | 4 | 36 | 42 | 36 | 24 | 15 | 21 | 48 |  |

## Multiplying Facts 3, 4 and 6 (H)

Find each product.

| 11 | 6 | 7 | 8 | 1 | 11 | 5 | 9 | 7 | $4$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 4$ | $\times 6$ | $\times 4$ | + 3 | $\times 4$ | $\times 6$ | $\times 4$ | $\times 6$ | $\times 3$ | $\times 6$ |
| 11 | 8 | 8 | 11 | 12 | 6 | 11 | 10 | 7 | 12 |
| $\times 4$ | +6 | +4 | $\times 4$ | $\times 4$ | + 3 | +4 | $\times 3$ | $\times 3$ | $\times 3$ |
| 5 | 1 | 6 | 11 | 9 | 8 | 11 | 9 | 9 | 12 |
| $\times 3$ | $\times 3$ | +4 | +4 | $\times 4$ | $\times 3$ | $\times 4$ | +6 | $\times 4$ | $\times$ |


| 3 | 7 | 5 | 7 | 12 | 1 | 9 | 6 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | | 3 |
| ---: |
| $\times 6$ |$\underline{\times 4} \quad \underline{\times 3} \quad \underline{3} \quad \underline{\times 6} \quad \underline{3} \quad \underline{6} \quad \underline{6} \quad \underline{\times 3} \quad \underline{6}$


| 3 | 11 | 12 | 2 | 5 | 12 | 10 | 4 | 8 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\underline{\times 6}$ | $\underline{\times 4}$ | $\underline{\times 6}$ | $\underline{\times 6}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 3}$ |
| $\underline{\times 3}$ | $\underline{\times 4}$ |  |  |  |  |  |  |  |
| 10 | 10 | 9 | 9 | 12 | 1 | 10 | 4 | 10 |
| $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 6}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 4}$ | $\underline{\times 3}$ |
|  |  |  | $\underline{\times 3}$ |  |  |  |  |  |
| 6 | 10 | 11 | 10 | 12 | 4 | 5 | 1 | 12 |
| $\times 3$ | $\underline{\times 6}$ | $\underline{\times 6}$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{\times 6}$ | $\underline{\times 4}$ | $\underline{\times 6}$ | $\underline{\times 6}$ |


| 10 | 5 | 5 | 5 | 10 | 7 | 10 | 10 | 8 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\times 3$ | $\underline{4}$ | $\underline{3}$ | $\underline{4}$ | $\underline{6}$ | $\underline{6}$ | $\underline{3}$ | $\underline{6}$ |
| $\times 6$ |  |  |  |  |  |  |  |  |


| 7 | 11 | 7 | 1 | 9 | 6 | 2 | 7 | 8 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\underline{\times 4}$ | $\underline{4}$ | $\underline{6}$ | $\underline{\times 4}$ | $\underline{\times 4}$ | $\underline{4}$ | $\underline{\times 4}$ | $\underline{\times 3}$ |


| 7 | 12 | 8 | 5 | 5 | 11 | 7 | 5 | 1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | +6 | - 4 | $\times 4$ | $\times 4$ | $\times 6$ | $\times 4$ | $\times 4$ |  |  |

## Multiplying Facts 3, 4 and 6 (H)

Find each product.

| 11 | 6 | 7 | 8 | 1 | 11 | 5 | 9 | 7 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 4$ | +6 | +4 | + 3 | $\times 4$ | $\times 6$ | $\underline{\times}$ | +6 | $\underline{\times}$ | $\times 6$ |
| 44 | 36 | 28 | 24 | 4 | 66 | 20 | 54 | 21 | 24 |
| 11 | 8 | 8 | 11 | 12 | 6 | 11 | 10 | 7 | 12 |
| $\times 4$ | 8 $\times 6$ | + 4 | +4 | $\times 4$ | +3 | $\times 4$ | +3 | $\times 3$ | $\times 3$ |
| 44 | 48 | 32 | 44 | 48 | 18 | 44 | 30 | 21 | 36 |
| 5 | 1 | 6 | 11 | 9 | 8 | 11 | 9 | 9 | 12 |
| + 3 | $\times 3$ | $\times 4$ | $\times 4$ | $\times 4$ | + 3 | $\times 4$ | $\times 6$ | +4 | $\times 3$ |
| 15 | 3 | 24 | 44 | 36 | 24 | 44 | 54 | 36 | 36 |
| 3 | 7 | 5 | 7 | 12 | 1 | 9 | 6 | 12 | 3 |
| +6 | +4 | +3 | +3 | $\times 6$ | $\times 3$ | +6 | +6 | $\times 3$ | +6 |
| 18 | 28 | 15 | 21 | 72 | 3 | 54 | 36 | 36 | 18 |
| 3 | 11 | 12 | 2 | 5 | 12 | 10 | 4 | 8 | 11 |
| $\times 3$ | +6 | $\times 4$ | +6 | +6 | $\times 3$ | $\times 4$ | +3 | $\underline{8}$ | +4 |
| 9 | 66 | 48 | 12 | 30 | 36 | 40 | 12 | 24 | 44 |
| 10 | 10 | 9 | 9 | 12 | 1 | 10 | 4 | 10 | 11 |
| $\times 3$ | $\times 3$ | $\underline{\times 6}$ | + 3 | $\times 3$ | $\times 4$ | $\times 3$ | $\times 4$ | $\times 3$ | $\times 3$ |
| 30 | 30 | 54 | 27 | 36 | 4 | 30 | 16 | 30 | 33 |
| 6 | 10 | 11 | 10 | 12 | 4 | 5 | 1 | 12 | 3 |
| $\times 3$ | $\times 6$ | $\times 6$ | $\times 4$ | $\times 4$ | $\times 6$ | $\times 4$ | $\times 6$ | $\times 6$ | $\times 3$ |
| 18 | 60 | 66 | 40 | 48 | 24 | 20 | 6 | 72 | 9 |
| 10 | 5 | 5 | 8 | 5 | 10 | 7 | 10 | 10 | 8 |
| $\times 3$ | $\times 3$ | $\times 4$ | + 3 | $\times 4$ | $\times 6$ | $\times 6$ | +3 | $\times 6$ | +6 |
| 30 | 15 | 20 | 24 | 20 | 60 | 42 | 30 | 60 | 48 |
| 7 | 11 | 7 | 1 | 9 | 6 | 2 | 7 | 8 | 11 |
| +3 | +4 | $\times 4$ | +6 | $\times 4$ | $\times 4$ | $\times 4$ | $\times 4$ | + 3 | +4 |
| 21 | 44 | 28 | 6 | 36 | 24 | 8 | 28 | 24 | 44 |
| 7 | 12 | 8 | 5 | 5 | 11 | 7 | 5 | 1 | 8 |
| $\times 4$ | +6 | $\underline{\times 4}$ | +4 | $\times 4$ | $\times 6$ | $\underline{\times 4}$ | + 4 | +6 | +3 |
| 28 | 72 | 32 | 20 | 20 | 66 | 28 | 20 | 6 | 24 |

## Multiplying Facts 3, 4 and 6 (I)

Find each product.

| 10 | 8 | 2 | 4 | 9 | 6 | 8 | 3 | 2 | 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 4$ | +3 | $\times 6$ | $\times 3$ | +6 | $\times 3$ | +6 | +3 | $\times 3$ | +3 |
| 5 | 3 | 6 | 10 | 4 | 1 | 8 | 11 | 5 | 6 |
| +4 | +6 | $\times 3$ | $\times 3$ | +4 | +6 | +6 | +6 | $\times 3$ | $\times 3$ |
| 2 | 10 | 10 | 12 | 9 | 7 | 3 | 5 | 12 | 12 |
| $\times 6$ | $\times 3$ | $\times 4$ | $\times 3$ | $\times 4$ | +4 | +4 | +6 | +6 | $\times 3$ |


| 9 | 8 | 9 | 7 | 10 | 6 | 4 | 2 | 3 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | | 8 |
| ---: |
| $\times 4$ |


| 10 | 12 | 9 | 2 | 3 | 4 | 3 | 1 | 1 | 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | +6 | +4 | +6 | +3 | $\times 3$ | +6 | +4 | +4 | +6 |


| 2 | 4 | 8 | 9 | 6 | 3 | 5 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |$\quad 3$

$\left.\begin{array}{rrrrrrrrr}9 & 9 & 2 & 6 & 12 & 8 & 4 & 5 & 2\end{array}\right) 12$

| 11 | 11 | 12 | 10 | 12 | 2 | 7 | 4 | 1 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 4$ | $\times 4$ | $\times 4$ | $\times 3$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 6$ | $\times 4$ |$\underline{\times 3}$

$\left.\begin{array}{rrrrrrrr}11 & 3 & 5 & 11 & 6 & 2 & 12 & 9\end{array}\right] 3$

| 11 | 9 | 6 | 11 | 12 | 3 | 7 | 12 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | | 6 |
| ---: |
| $\times 4$ |

Find each product.

| 10 | 8 | 2 | 4 | 9 | 6 | 8 | 3 | 2 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 4$ | $\frac{\times 3}{24}$ | $\frac{\times 6}{12}$ | $\frac{\times 3}{12}$ | $\frac{\times 6}{54}$ | $\frac{\times 3}{18}$ | $\frac{\times 6}{48}$ | $\underline{\times 3}$ | $\frac{\times 3}{6}$ |$\frac{\times 3}{9}$

## Multiplying Facts 3, 4 and 6 (J)

Find each product.

| 5 | 12 | 8 | 3 | 8 | 7 | 10 | 6 | 9 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 3$ | $\underline{\times 4}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 3}$ | $\underline{\times 6}$ |$\underline{\times 4}$


| 3 | 9 | 10 | 1 | 8 | 3 | 9 | 4 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 4$ | $\times 3$ | $\times 3$ | $\times 3$ | $\times 4$ | $\times 6$ | $\times 3$ | $\times 4$ |
| $\times 3$ | $\times 3$ |  |  |  |  |  |  |


| 4 | 2 | 9 | 3 | 1 | 3 | 12 | 6 | 4 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | $\times 3$ | $\times 3$ | +6 | +4 | +6 | +4 | $\times 3$ | +6 | $\times 4$ |


| 2 | 12 | 5 | 10 | 7 | 10 | 6 | 9 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |$\quad 8$


| 6 | 11 | 11 | 2 | 6 | 7 | 1 | 9 | 8 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +6 | $\times 3$ | $\times 3$ | $\times 3$ | +6 | +6 | +6 | +6 | $\times 3$ | +6 |
| 5 | 7 | 4 | 4 | 7 | 10 | 5 | 3 | 10 | 10 |
| +4 | +6 | $\times 3$ | $\times 3$ | $\times 3$ | $\times 3$ | +6 | +6 | +6 | +6 |


| 11 | 3 | 10 | 5 | 5 | 6 | 11 | 4 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\times 4$ |  |  |  |  |  |  |  |
| $\times 3$ | $\times 4$ | $\times 4$ | $\times 3$ | $\times 6$ | $\times 4$ | $\times 3$ | $\times 3$ |


| 6 | 3 | 7 | 5 | 9 | 12 | 6 | 1 | 6 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| +4 | +4 | +4 | $\times 3$ | $\times 3$ | $\times 3$ | +6 | +3 | +4 | $\times 3$ |

Find each product.

| 5 | 12 | 8 | 3 | 8 | 7 | 10 | 6 | 9 | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\times 3$ | +4 | $\times 3$ | $\times 3$ | $\times 3$ | $\times 3$ | +3 | $\times 3$ | +6 | +4 |
| 15 | 48 | 24 | 9 | 24 | 21 | 30 | 18 | 54 | 24 |
| 6 | 12 | 4 | 7 | 5 | 11 | 3 | 11 | 1 | 6 |
| + 4 | +4 | +6 | +4 | +6 | + 4 | +3 | +3 | $\times 3$ | +3 |
| 24 | 48 | 24 | 28 | 30 | 44 | 9 | 33 | 3 | 18 |
| 1 | 3 | 2 | 2 | 5 | 10 | 3 | 11 | 8 | 1 |
| +6 | $\times 4$ | +4 | $\times 3$ | +3 | $\begin{array}{r}10 \\ \times 4 \\ \hline\end{array}$ | +6 | +4 | +4 | +4 |
| 6 | 12 | 8 | 6 | 15 | 40 | 18 | 44 | 32 | 4 |
| 3 | 9 | 10 | 1 | 8 | 3 | 9 | 4 | 2 | 4 |
| +4 | $\times 3$ | $\times 3$ | $\times 3$ | + 4 | +6 | $\times 3$ | +4 | $\times 3$ | $\times 3$ |
| 12 | 27 | 30 | 3 | 32 | 18 | 27 | 16 | 6 | 12 |
| 4 | 2 | 9 | 3 | 1 | 3 | 12 | 6 | 4 | 1 |
| +6 | $\times 3$ | $\times 3$ | +6 | +4 | +6 | +4 | +3 | +6 | +4 |
| 24 | 6 | 27 | 18 | 4 | 18 | 48 | 18 | 24 | 4 |
| 2 | 12 | 1 | 5 | 10 | 7 | 10 | 6 | 9 | 8 |
| $\times 4$ | $\times 4$ | $\times 6$ | $\times 3$ | $\times 3$ | +4 | +3 | +66 | +6 | +66 |
| 8 | 48 | 6 | 15 | 30 | 28 | 30 | 36 | 54 | 48 |
| 6 | 11 | 11 | 2 | 6 | 7 | 1 | 9 | 8 | 6 |
| +6 | $\times 3$ | $\times 3$ | $\times 3$ | +6 | +6 | +6 | +6 | +3 | +6 |
| 36 | 33 | 33 | 6 | 36 | 42 | 6 | 54 | 24 | 36 |
| 5 | 7 | 4 | 4 | 7 | 10 | 5 | 3 | 10 | 10 |
| + 4 | +6 | $\times 3$ | $\times 3$ | $\times 3$ | +3 | +6 | a $\times 18$ | +6 | +6 |
| 20 | 42 | 12 | 12 | 21 | 30 | 30 | 18 | 60 | 60 |
| 11 | 3 | 5 | 10 | 5 | 5 | 6 | 11 | 4 | 10 |
| $\times 4$ | $\times 3$ | +4 | +4 | +3 | +6 | + 4 | +3 | $\times 3$ | +6 |
| 44 | 9 | 20 | 40 | 15 | 30 | 24 | 33 | 12 | 60 |
| 6 | 3 | 7 | 5 | 9 | 12 | 6 | 1 | 6 | 1 |
| + 4 | +4 | $\times 4$ | $\times 3$ | $\times 3$ | +3 | +6 | $\times 3$ | +4 | $\times 3$ |
| 24 | 12 | 28 | 15 | 27 | 36 | 36 | 3 | 24 | 3 |

