# Tic-Tac-Toe
## (Dividing Whole Numbers by Unit Fractions)

**Materials:** Small counters (one color per player), 2 dice

**Object of the game:** To be the first player to create a line of 3 boxes on any of the three game boards (vertically, horizontally, or diagonally).

**Directions:** On your turn, roll both dice. Add the dice together and find their sum in the chart. Solve the problem beside that sum. Then, look for the answer on any of the three game boards below. You may use one of your counters to cover that answer. If there are no available boxes, your turn is over. The first player to cover a line of 3 boxes on any game board with his/her own counters is the winner.

| Sum of Dice | Problem to Solve |
|:---:|:---:|
| 2 | $8 \div \frac{1}{6}$ |
| 3 | $5 \div \frac{1}{5}$ |
| 4 | $7 \div \frac{1}{3}$ |
| 5 | $6 \div \frac{1}{5}$ |
| 6 | $10 \div \frac{1}{2}$ |
| 7 | $2 \div \frac{1}{12}$ |
| 8 | $3 \div \frac{1}{5}$ |
| 9 | $12 \div \frac{1}{6}$ |
| 10 | $11 \div \frac{1}{4}$ |
| 11 | $9 \div \frac{1}{3}$ |
| 12 | $4 \div \frac{1}{7}$ |

| | | |
|:---:|:---:|:---:|
| 15 | 24 | 25 |
| 30 | 44 | 21 |
| 72 | 20 | 28 |

| | | | | | |
|:---:|:---:|:---:|:---:|:---:|:---:|
| 48 | 27 | 30 | 25 | 72 | 15 |
| 28 | 24 | 15 | 27 | 48 | 20 |
| 20 | 21 | 72 | 24 | 30 | 44 |

# Tic-Tac-Toe ANSWERS
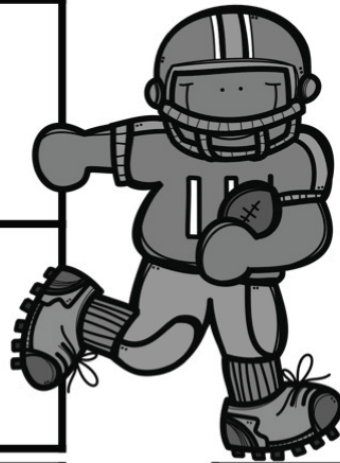## (Dividing Whole Numbers by Unit Fractions)

Note: The answers to the problems are shown in the chart.

| Sum of Dice | Problem to Solve |
|:---:|:---:|
| 2 | 48 |
| 3 | 25 |
| 4 | 21 |
| 5 | 30 |
| 6 | 20 |
| 7 | 24 |
| 8 | 15 |
| 9 | 72 |
| 10 | 44 |
| 11 | 27 |
| 12 | 28 |

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|:---:|:---:|:---:|
| 15 | 24 | 25 |
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|:---:|:---:|:---:|
| 48 | 27 | 30 |
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| | | |
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