

Challenge

Roll Me Some Factors

Materials: 1 cube numbered 1–6, pencil, game cards (shown below)

Number of Players: 2 or more players

Rules of the game:

- Copy or cut out the game cards below.
- Each player rolls the number cube to determine who goes first. The player who rolls the greater number is Player 1.
- Player 1 rolls the number cube. The number shown is the first factor in the multiplication problem. Player 1 writes this number on his or her game card.
- Player 1 rolls the number cube again. This number is the second factor in the multiplication problem. This number is also written on the game card. Player 1 multiplies the two factors and writes the product in the correct column.
- Player 2 then rolls the number cube to find factors and products.
- The players continue taking turns rolling the cube and finding factors and products.
- After 5 rounds, each player adds up the products on his or her game card. The player with the greatest sum is the winner.

Player 1-Game card				
Factor	×	Factor	=	Product
	×		=	
	×		=	
	×		=	
	×		=	
	×		=	
Sum:				=

Player 2-Game card				
Factor	×	Factor	=	Product
	×		=	
	×		=	
	×		=	
	×		=	
	×		=	
Sum:				=

What is the greatest possible sum?

What is the least possible sum?

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Player 1-Game card				
Factor	×	Factor	=	Product
	×		=	
	×		=	
	×		=	
	×		=	
	×		=	
Sum:				=

Player 2-Game card				
Factor	×	Factor	=	Product
	×		=	
	×		=	
	×		=	
	×		=	
	×		=	
Sum:				=

What is the greatest possible sum?

$$6 \times 6 \times 5 = 36 \times 5 = 180$$

What is the least possible sum?

$$1 \times 1 \times 5 = 5$$
