



- **58. SOCCER** A regional soccer tournament has 64 participating teams. In the first round of the tournament, 32 games are played. In each successive round, the number of games played decreases by one half.
 - **a.** Find a rule for the number of games played in the *n*th round. For what values of *n* does your rule make sense?
 - **b.** Find the total number of games played in the regional soccer tournament.

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