

Tournament Time

Valleyview School is holding a half-court basketball tournament. Each team in the tournament has three players. Each time a team loses, the team is eliminated from the tournament.

1. Forty-two teams sign up for the tournament. How many players in all are taking part?

2. How many games will be played until there is one winning team left?

3. Two games can be played on one basketball court at the same time. The Valleyview School playground has 9 basketball courts.

A How many players can play at once?

B How many teams out of the 42 in the tournament will have to sit out the first round?

4. If all 9 courts are used, how many basketballs will the tournament organizers need?

5. Each round of a tournament eliminates half the teams playing.

A How many rounds must be played before a tournament with 64 teams ends with a single team winner?

B How many games in all will be played?
