

Name: _____

Date: _____

Chapter 9 Gifted and Enrichment

1. Anita is on the school basketball team. She tracked the points for and against her team during six games. Each basket is worth two points and each successful foul shot is worth one point. Determine the net gain by Anita's team, the highest possible number of baskets by Anita's team, and the lowest possible number of successful foul shots by Anita's team for each game.

| Game | Points Scored by Anita's Team | Points Scored by Opposing Team | Net Gain by Anita's Team | Highest Possible Number of Baskets | Lowest Possible Number of Foul Shots |
|------|-------------------------------|--------------------------------|--------------------------|------------------------------------|--------------------------------------|
| 1 | 31 | 18 | | | |
| 2 | 38 | 28 | | | |
| 3 | 32 | 39 | | | |
| 4 | 25 | 31 | | | |
| 5 | 42 | 34 | | | |
| 6 | 19 | 30 | | | |

2. Jackson is playing Snakes and Ladders. He has made the following moves:

| Move | Spaces Moved |
|------|--------------|
| 1 | Forward 6 |
| 2 | Forward 3 |
| 3 | Forward 5 |
| 4 | Back 8 |
| 5 | Forward 5 |
| 6 | Forward 5 |
| 7 | Forward 6 |
| 8 | Back 4 |
| 9 | Forward 6 |
| 10 | Back 2 |

Show the moves as the sum of integers. How far has he moved in the game?

3. Cheryl is trading hockey cards with friends at school to try to improve her collection. She starts with 68 cards and makes the following trades:

| Trade | Gives Away | Collects |
|-------|------------|----------|
| 1 | 3 | 2 |
| 2 | 1 | 3 |
| 3 | 2 | 6 |
| 4 | 6 | 4 |
| 5 | 8 | 4 |
| 6 | 4 | 4 |
| 7 | 5 | 7 |

Represent her trading activities as a sum of the integers. How many cards does she have at the end of the trading?

4. Miranda and her mother are scuba diving. As they explore the bottom of a lake, they find they must change depths frequently because of the rough bottom. Complete the following table by using subtraction of integers to show their depth at each stage. Their depth just before Stage 1 is -23 m.

| Stage | Movement | Integer Subtraction | Depth (m) |
|-------|-----------|---------------------|-----------|
| 1 | Up 7 m | | |
| 2 | Down 3 m | | |
| 3 | Down 5 m | | |
| 4 | Up 9 m | | |
| 5 | Down 12 m | | |
| 6 | Up 25 m | | |