Lesson 10: Understanding Multiplication of Integers

Problem Set

1. Describe sets of two or more matching integer cards that satisfy the criteria in each part below:
	1. Cards increase the score by eight points.
	2. Cards decrease the score by $9$ points.
	3. Removing cards that increase the score by $10$ points.
	4. Positive cards that decrease the score by $18$ points.

$$5$$

$$-3$$

$$-4$$

$$3$$

1. You have the integer cards shown at the right when your teacher tells you to choose a card to multiply four times. If your goal is to get your score as close to zero as possible, which card would you choose? Explain how your choice changes your score.
2. Sherry is playing the Integer Game and is given a chance to discard a set of matching cards. Sherry determines that if she discards one set of cards, her score will increase by $12$. If she discards another set, then her score will decrease by eight. If her matching cards make up all six cards in her hand, what cards are in Sherry’s hand? Are there any other possibilities?