12.5 & 12.6 Word Problems
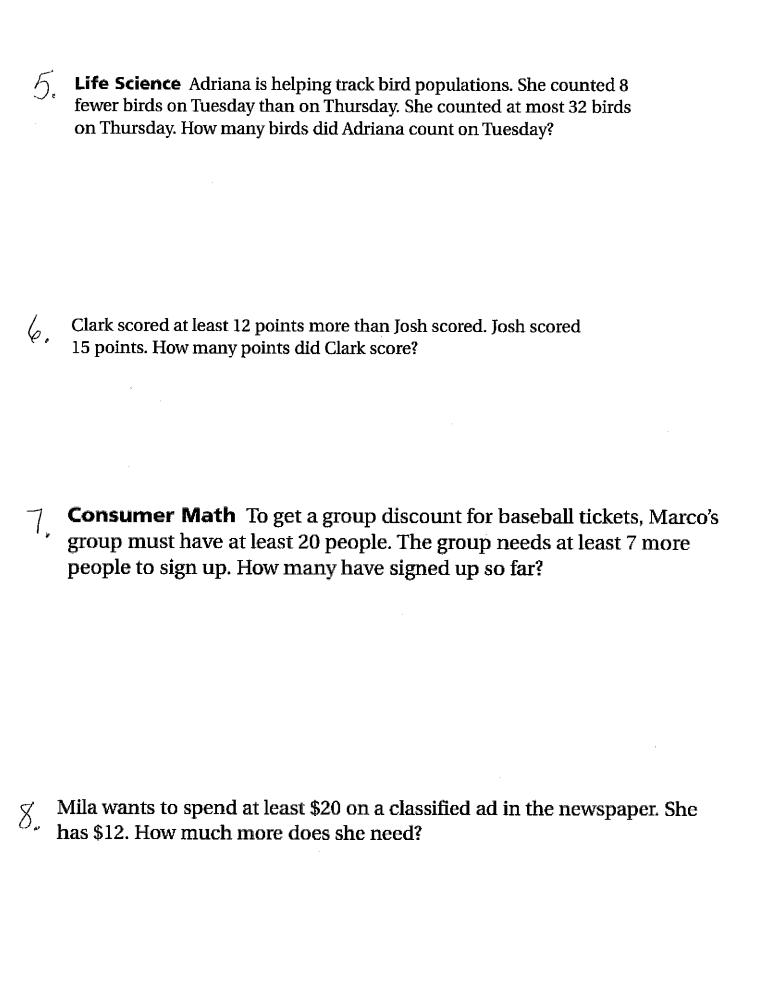
12.5

1. **Sunday's high temperature of 72°F was at least 40°F higher than Monday's high temperature. What was Monday's high temperature?**

   Sunday's high   was at least   40°F higher than   Monday's high.

2. Friday's high temperature was 20°F. Saturday's high temperature was forecast to be no more than 8°F warmer than Friday's high temperature. According to the forecast, what are the possible high temperatures for Saturday?

3. In order for a field trip to be scheduled, at least 30 students must sign up. So far, 23 students have signed up. At least how many more students must sign up in order for the field trip to be scheduled?

4. **Weather** Yesterday's high temperature was 30°F. Tomorrow's weather forecast includes a high temperature that is no more than 12°F warmer than yesterday's. What high temperatures are forecast for tomorrow?

5. **Life Science** Adriana is helping track bird populations. She counted 8 fewer birds on Tuesday than on Thursday. She counted at most 32 birds on Thursday. How many birds did Adriana count on Tuesday?

6. Clark scored at least 12 points more than Josh scored. Josh scored 15 points. How many points did Clark score?

7. **Consumer Math** To get a group discount for baseball tickets, Marco's group must have at least 20 people. The group needs at least 7 more people to sign up. How many have signed up so far?

8. Mila wants to spend at least $20 on a classified ad in the newspaper. She has $12. How much more does she need?

9. **It cost the Schmidts $517 to raise watermelons. How many watermelons must they sell at $5 apiece to make a profit?**

10. It cost Deirdre $212 to make candles. How many candles must she sell at $8 apiece to make a profit?

11. It cost $730 to put on the school play. How many tickets must be sold at $6 apiece in order to make a profit?

12. It cost Sophia $530 to make wind chimes. How many wind chimes must she sell at $12 apiece to make a profit?

13. It cost the Wilson children $55 to make lemonade. How many glasses must they sell at 75¢ each to make a profit?

14. Jorge's soccer team is having its annual fund raiser. The team hopes to earn at least three times as much as it did last year. Last year the team earned $87. What is the team's goal for this year?

15. Attendance at a museum more than tripled from Monday to Saturday. On Monday, 186 people went to the museum. How many people went to the museum on Saturday?

16. Tammy is going to a family reunion 350 miles away. She plans to travel no faster than 70 miles per hour. What is the least amount of time it will take her to get there?