Math Word Games

6th & 7th Grade Questions

1. Marissa has dreamed of riding in a hot air balloon for a long time. Her mom contacted a local business and found out that they charge $200 per passenger. Marissa has already saved $75. If she earns $25 each time she babysits her neighbor's kids, how many more times does she need to babysit before she'll have enough money for the balloon ride?

   _____

2. Rebecca was 18 years old when she earned her hot air balloon pilot license. She piloted her dad's hot air balloon twice a month for three years. How many times did Rebecca pilot the hot air balloon during that time?

   _____

3. Hot air balloons use propane fuel to heat the air inside the balloon's envelope. This hot air lifts the balloon into the sky. If a full 40 gallon tank of propane can lift a hot air balloon 8,000 feet into the air, how many feet into the air could 10 gallons of propane fuel lift the balloon?

   _____

4. A hot air balloon pilot says that his tethered balloon is able to lift up a maximum of five passengers, but with no more than 350 pounds of weight (not counting his own weight or any of the equipment). Below are the weights of several 6th and 7th graders.

   | Deborah, 75 | Lucy, 100 | Tom, 90 |
   | Clara, 85 | Tyler, 70 | Daniel, 110 |

   If the pilot only has time for one more ride, and in order to allow as many kids to ride the balloon as possible (and getting as close to the maximum weight allowed in the balloon), who do you suggest should ride in the balloon?

   _____

5. If a hot air balloon takes off and is carried by the wind at 8 miles per hour, how far would the balloon be when it lands after 45 minutes?

   _____

Answers

1. 5 more times ($75 + $125 [5 x $25] = $200)
2. 72 times — Rebecca piloted the hot air balloon 24 times per year (2 x 12 = 24). She piloted the balloon for 3 years. Thus, she piloted the balloon 72 times during those three years (24 x 3 = 72).
3. 2,000 feet (8,000 feet ÷ 4 = 2,000 feet)
4. Deborah, Clara, Lucy, Tom (75 + 85 + 100 + 90 = 350)
5. 6 miles away (8 miles ÷ ¾ = 6 miles)