



MATH WORD GAMES

5th & 6th Grade Questions

1. If a hot air balloon rises 8 feet per second, how high will the balloon be in 5 seconds?

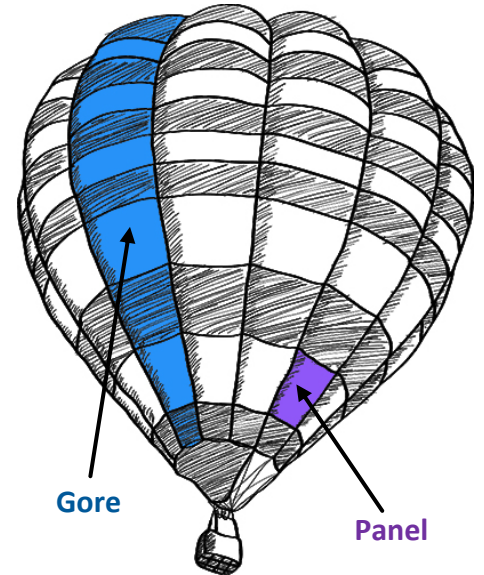
2. A 'gore' is a section of fabric extending from the top of the envelope to the bottom of the envelope. These sections of fabric often contain smaller sections called 'panels'. If a gore contains 15 panels, and if there are 8 gores around the balloon, how many total panels are there on the balloon?

3. On earth, an object falls at 32 feet per second. If Jenny drops her cell phone at a height of 96 feet, how many seconds will it take before the cell phone hits the ground?

4. A hot air balloon has a tether line (the rope that keeps the balloon attached to the ground). Kate, a fifteen-year-old girl, enjoyed a tethered hot air balloon ride. After the ride, she asked the pilot how high up they went. The pilot smiled and said that the tether line was 11 times his height. When Kate asked the pilot how tall he was, he said he was 6 feet tall. How high did the hot air balloon's tether line reach into the air?

5. A basketball contains about 1 cubic foot of space. If an average hot air balloon contains about 80,000 cubic feet of space, how many basketballs worth of space could fit inside the balloon's envelope?

6. If the basket of a hot air balloon is twice as wide as its height, and if the basket's walls are 3 feet tall, how wide is the basket?



1. 40 feet high (8 feet x 5 seconds = 40 feet)
 2. 120 (15 panels per gore x 8 gores = 120 panels)
 3. 3 seconds
 4. 66 feet (11 x 6 feet = 66 feet)
 5. 80,000 (80,000 cubic feet ÷ 1 cubic foot = 80,000)
 6. 6 feet (3 feet x 2 = 6 feet wide)

ANSWERS