

The Academy Awards will be held Sunday. Avatar, the all-time highest grossing movie in theatres, won two Oscars in 2010. Lets take a look at the ten highest grossing movies of all time.

All-Time Worldwide Box office (theatrical gross, not adjusted for inflation)		
Rank	Title	Worldwide Box Office
1.	Avatar (2009)	\$2,781,505,847
2.	Titanic (1997)	\$1,835,300,000
3.	Harry Potter and the Deathly Hallows: Part 2 (2011)	\$1,327,655,619
4.	The Lord of the Rings: The Return of the King (2003)	\$1,119,102,868
5.	Transformers: Dark of the Moon (2011)	\$1,114,558,779
6.	Pirates of the Caribbean: Dead Man's Chest (2006)	\$1,065,896,541
7.	Toy Story 3 (2010)	\$1,062,984,497
8.	Pirates of the Caribbean: On Stranger Tides (2011)	\$1,041,963,875
9.	Alice in Wonderland (2010)	\$1,023,285,206
10.	The Dark Knight (2008)	\$1,001,921,825

1. By how many dollars did Avatar top Titanic?
2. A better comparison of the movies would be to look at their returns as adjusted for inflation. Assume inflation has been increasing 3% per year since 1997. Find Titanic’s adjusted Box Office returns using 2011 dollars.
 To figure out a 3% increase you can multiply your original amount by 1.03 to get a 3 percent increase for one year.
 For example:
 $1,835,300,000 \times 1.03$ converts it into 1998 dollars.
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3. Compare the two movies, Avatar and Titanic, after adjusting for inflation. Which made more money? By how much?
4. Adjust each movie for inflation. Reorder the movies after their earnings are adjusted for inflation. Which of the movies falls to the bottom of this list?
5. In 1942 the movie Bambi made \$268,000,000 at theatres. Adjust this number to 2011 dollars to compare with it the other movies. Try to come up with an equation that will let you calculate the adjusted total, so that you do not have to repeatedly enter it into your calculator.