# Figuring Averages ANSWER

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You will use Interactive: Figure This! http://www.figurethis.org/challenges/c14/challenge.htm

The problem is: In May 1999, two players each had batting averages that were the same. See chart

|  |  |  |  |
| --- | --- | --- | --- |
| Player | Bats | Hits | Average |
| M. Lieberthal | 132 | 45 | .341 |
| J. McEwing | 132 | 45 | .341 |

Write the formula for figuring averages. If you do not know it, select **Hint**?

Write the formula here:

Average= number of hits

number of at bats

If McEwing then batter 4 hits in 5 bats, what would his average be?­­­\_ .800\_\_\_\_\_\_\_\_\_

And if Lieberthal had a perfect game (3 hits in 3 at bats), what is his average?\_\_\_100\_\_

Which player now has the higher batting average? \_\_\_\_\_\_\_McEwing\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain why:  *According to the Web site: If McEwing gets 3 hits in his first 3 at bats while Lieberthal also gets 3 hits in 3 at bats they will both still be tied. Then during McEwing’s last 2 at bats, he gets 1 hit. This average of 1 for 2, or .500 is better than his current average, so his batting average goes up.*

## More Problems Using Averages:

1. Marcia has received her grades for the semester. They are biology=A, algebra=B, English=B, PE=C and U.S. History=C. What is her average? (A=4, B=3, C=2, D=1)

2.8 GPA

2. The jewelry store sells rings for $99.99, $79.88, $87.98, $68.98, $101.88, and $119.89. What is the average price of rings?

$93.10

3. For the month of October Chang made $250, the first week, $198, the second week, $280, the third week and $299 the last week. What was the average amount he made per week?

$256.75

4. The deli sold 14 ham sandwiches on Monday, 18 ham sandwiches on Tuesday, 12 ham sandwiches on Wednesday, 17 ham sandwiches on Thursday, 28 ham sandwiches on Friday and 29 ham sandwiches on Saturday. What was the average number of sandwiches sold per day for the week?

The average is 19.7 or ~ 20 sandwiches