

Algebra Unit 3 Worksheet 6
Weighted Averages Worksheet

Name _____
Date _____

The table below shows the test grades for five Algebra students. The final test will count as three test grades.

Test	Bob	Faye	Cheryl	Rosa
Test 1	85	78	70	91
Test 2	89	75	81	98
Test 3	78	75	84	95
Final Test	87	72	82	88

Write an expression to find each student's weighted average grade and then find the final grade. Show all work!

1. Bob's Grade?
2. Faye's Grade?
3. Cheryl's Grade?
4. Rosa's Grade?
5. If Bob had earned 100% on his final test would he have gotten a "A" (90% or higher) in the class?
6. To earn a "B" in Geometry, Abby must get a grade average of at least 80%. Abby's test scores are 85, 90, and 75. Her final exam score counts as three test scores in the average. Abby got a grade of 78 on the final exam. What was her final grade average? Did she get a "B"?
7. Mary ordered dinner for a party of 10 people. Three people ordered the \$4.75 chicken dinner, two people ordered the \$4.95 fish dinner, and five had the beef dinner at a cost of \$6.75 each. What was the average cost of each dinner at Mary's party?

8. Jane has two test grades of 83, four grades of 86, and 3 grades of 92 on her first nine math tests. Her final exam will be weighted as three test grades.
- Write an equation in terms of the variable "x" that shows that Jane's final grade for the term will be an "88."
 - What grade will Jane need to get on the final test to receive an 88 for the term?
9. Joe's test grades in History class are: 92, 89, 85, 89, and 90. The semester final will count as two tests. Joe needs to get a grade of 90 or higher for the semester. What is the minimum score Joe can get on the final test and average 90?
10. Bob had three carries of 8 yards each and five carries of 6 yards each in a recent football game. What was his rushing average (average yards per carry)?
11. Maggie recently took a road trip. She bought 15 gallons of gasoline for \$1.68 per gallon and 12 gallons at a price of \$1.76 per gallon. She filled her tank once on the way back with 16 gallons at \$1.65 per gallon. What was the average fuel cost per gallon on Maggie's trip?
12. A truck was able to average only 40 mph for the first four hours of a delivery route. How long must the driver travel at a speed of 55 mph to average 50 mph for the trip?