**Directions:** Answer each question. Be sure to show your work. No work = no credit! (as in you will get no credit for doing this homework if only answers are circled and no work is shown).

1. Ms. Borst and Ms. Brophy are organizing the classroom library. The shelf is 1 ½ feet long. If each book is 1/2 inch thick, how many books will fit completely on 2 shelves? (1 foot = 12 inches)
2. 9
3. 18
4. 36
5. 72
6. A 3 kg jar of jelly is used to make sandwiches for the senior trip. If the jar is used completely and the same amount of jelly was used on each sandwich, how many grams of jelly were used to make each of the 60 sandwiches? (1,000 g = 1 kg)
7. 180 grams
8. 3,000 grams
9. 180,000 grams
10. 50 grams
11. Which figure does not have 2 pairs of opposite and parallel?
12. Trapezoid
13. Square
14. Rectangle
15. Rhombus
16. The volume of Olivia’s lunchbox is 512 cubic inches. The length is twice the width, and the width is twice the depth. The depth is 4 cubic inches, what is the length?
17. 8 inches
18. 16 inches
19. 512 inches
20. 12 inches
21. Which expression represents the phrase “6 times the sum of 8 and 3?”
22. 6 + 3 + 8
23. 6 x (3 x 8)
24. 6 x (3 + 8)
25. 6 + (8 x 3)
26. For last year’s senior trip we used 2 identical buses to travel to Club Getaway. Each bus holds 36 people.
* The first bus was 5/6 full of students and the rest was chaperones.
* The second bus was 2/3 full.
* Of the passengers on the second bus 1/8 are chaperones.

How many chaperones will be attending the senior trip in total?

1. 9 chaperones
2. 30 chaperones
3. 3 chaperones
4. 6 chaperones
5. Which expression is equivalent to 36?
6. 1 + 5(3 x 2)
7. 10 + 2(1 + 2)
8. 3 x 3(2 + 2)
9. 2 + 2(3 x 3)
10. There are 3 pounds of candy in a bowl. Added to the bowl are two bags of candy, one that weighs 3/8 of a pound and another that weighs 1/8 of a pound. If all of the candy is shared equally among 10 students, what fraction of a bag will each student receive?