**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. Which expression has the same value as 9 + 3(4 + 6)
2. 4 + 5(3 + 7)
3. (4 + 7) + 11
4. 3 + 6(2 + 4)
5. (5 + 4) + 14
6. Zach divides juice cups equally among 5 friends. If he has 3 juice cups, how much would each friend get?
7. 1 $\frac{2}{3}$ cups
8. $\frac{3}{5}$
9. $\frac{1}{5}$
10. 5 $\frac{1}{3}$
11. There are a total of 432 bags of popcorn sold during a movie. Popcorn is sold in cases of 12 bags and each case costs $8. How much is the total cost of all of the popcorn sold?
12. $5,184
13. $96
14. $288
15. $3,456
16. Sam is planting a garden and plans to use ½ of it for vegetables. He will use an equal amount of space to plant lettuce, peppers, and corn. What fraction of the total garden will be used for each vegetable?
17. 1/12
18. 1/3
19. 1 ½
20. 1/6
21. Vallery needs 300 feet of fencing to fence in the perimeter of her yard. If the fence is sold in yards, how many yards of fencing must Vallery buy? If the fencing costs $25 per yard, how much will it cost her to fence her yard?
22. Jin, Marco, and Alani each ran a 10 meter sprint. Jin ran it in three tenths of a minute, Marco ran it in forty-five hundredths of a minute and Alani ran it in 67 hundredths of a minute.

Which of the following statements is true?

1. Alani won the race and Jin came in last.
2. Alani won the race and Marco came in last.
3. Jin won the race and Marco came in last.
4. Jin won the race and Alani came in last.
5. Which diagram shows the product 3.5 x 12?