

C. \$70.00

D. \$75.55

11. (MAMDMN1) Roshid plays for the NY Mets, and is the MVP. He has twice as many homeruns as triples. His total at-bats is 754. He has 154 singles and 47 doubles. He has a total of 306 hits. What is Rashid's slugging average?

$$154 + 47 + x + 2x = 306$$

$$201 + 3x = 306$$

$$x = 35$$

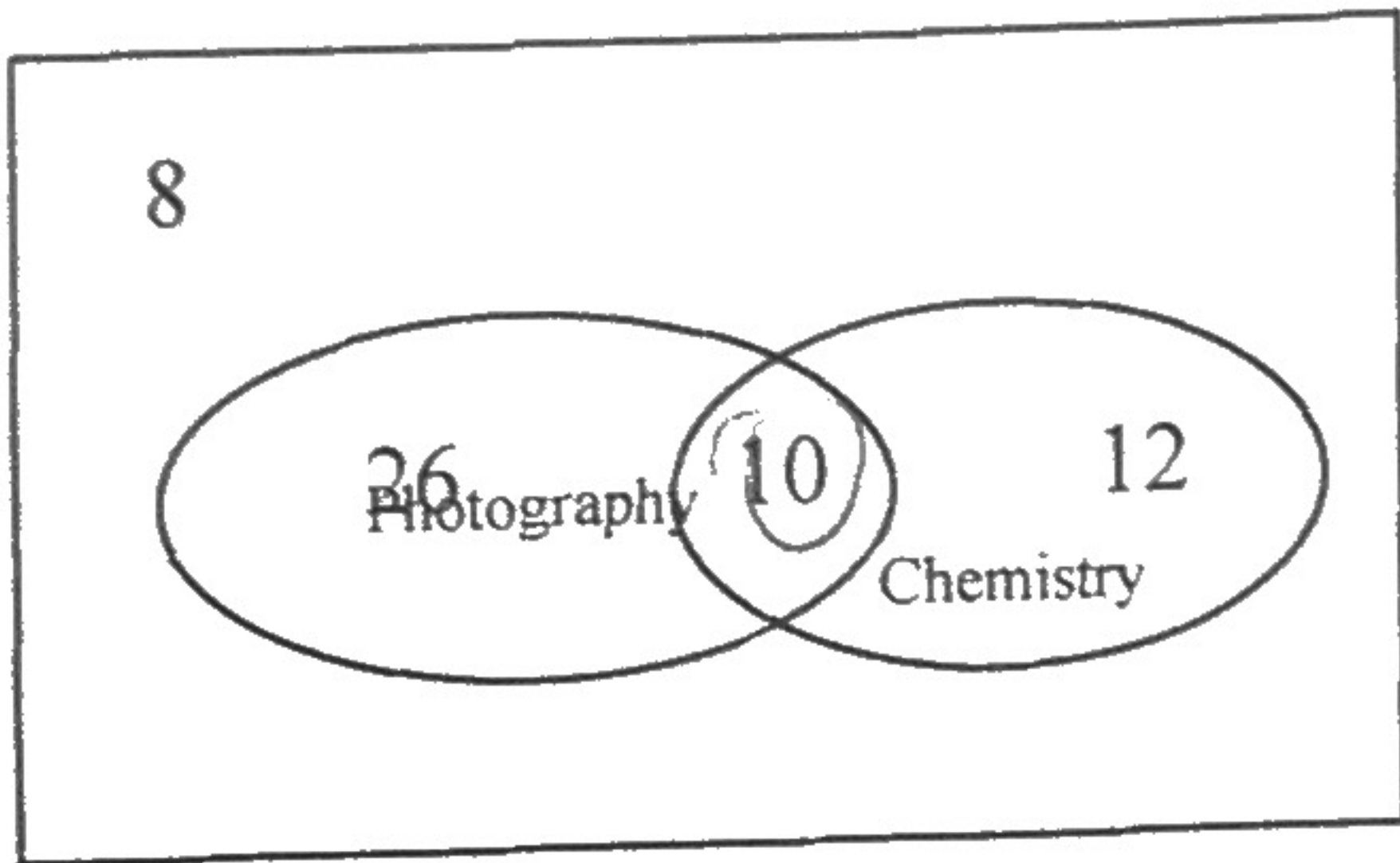
$$154(1) + 47(2) + 35(3) + 70(4)$$

$$= 633 / 754 = .840$$

12. (MAMDMD1) Jason has a spinner game with three spinners, each divided into three equal parts of red, green, and blue. What is the probability of getting blue on all three spinners?

$$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = .037 = 3.7\%$$

13. (MAMDMD1) What is the percentage of students taking both courses?



$$\frac{10}{56} = .178 = 17.8\%$$

14. (MAMDMN1) You are hired to estimate how many people attend a celebration at Alamo Plaza. You mark off a five foot by five foot square to help make your estimation. Which of the following situations might distort your estimation?

- A. The entire offensive line of the Dallas Cowboys is in your square
- B. There is a class of kindergartners in your square.
- C. There are some mothers with babies in strollers.
- D. All of the above can distort your estimation.

15. (MAMDMN1) There are about 6,600,000,000 people living in the world. About how many males are there?

- A. 6,600,000,000
- B. 3,000,000,000
- C. 100,000,000
- D. 1,000

16. (MAMDMN1) How many phone numbers are possible in the (512) area code if:

For the form ABC-XXXX, A is restricted to 2-9. X, B, and C can be any digit 0-9.

$$8 \cdot 10 \cdot 10 = 10 \cdot 10 \cdot 10 \cdot 10$$

17. (MAMDMN1) How many area codes would be possible if all three digits could be any value 1-9?

$$9 \cdot 9 \cdot 9 = 9^3$$

18. (MAMDMN1) The aspect ratio of tire P245/70R16 is  $\rightarrow 70$

19. (MAMDMN1) You are standing amongst a crowd that is 10 feet deep and 2 miles long at a parade. You want to estimate how many people are there. If each person occupies 2 square feet, estimate the size of the crowd watching the parade along a 2 mile stretch. (Both sides of the street) (There are 5,280 feet in one mile)

$$10(10,560) = 105,600 \div 2 = 52,800 \text{ one side of street}$$

$$= 105,600 \text{ Both sides of street}$$