

# 14

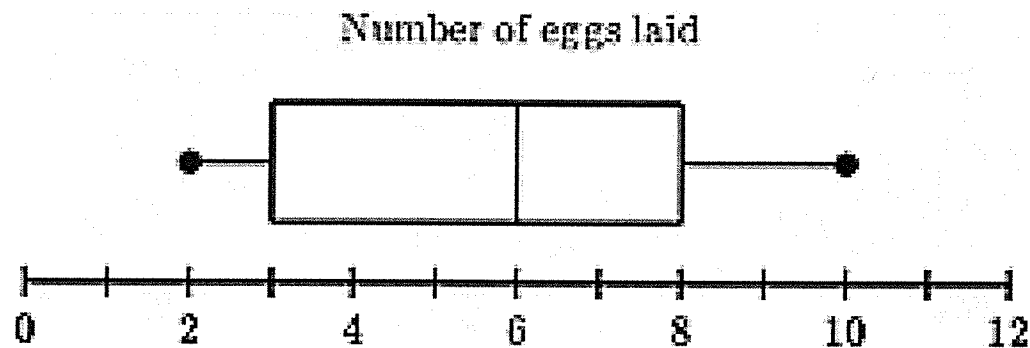
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Find the standard deviation of the data set below showing a sample of the number of people in a library.

14, 23, 7, 29, 19, 14, 16, 10, 25



$$X = 1.76$$



75% of chickens lay less than how many eggs?

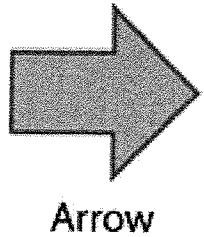


# Ford

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Find the mode of the data set below showing a sample of the number of people in a library.

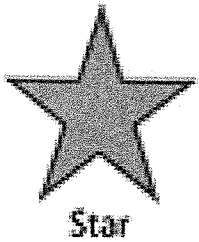
14, 23, 7, 29, 19, 14, 16, 10, 25



$$X = 90.2$$

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A college student is taking physics for 4 credit hours, Calculus for 3 hours, computer programming for 2 hours, and Anatomy for 5 hours. If he earned a B, A, B, and C respectively, what is that student's GPA? Round to 2 decimal places.



# 17.4

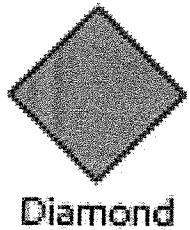
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Laurie collected information on the kind of car her friends drive. Find the mode.

Chevrolet: 17

Ford: 23

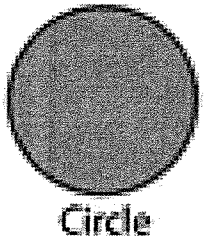
Chrysler: 19



# 6.8

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Sally scored 1350 overall on her SAT, which has a mean of 1200 and a SD of 85. She also took the ACT and scored 28. The ACT has a mean of 22 with a SD of 3.5. Find the z-scores for each test. The next shape you go to has the highest z-score.



# 75%

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Find the median of the data set below showing a sample of ages of people at a library.

14, 23, 7, 29, 19, 14, 16, 10, 25



parallelogram

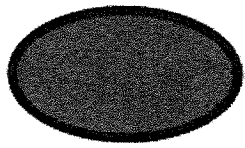
$$X = 2.86$$

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Which value is an outlier in the data set below? Use the mean and SD definition of outlier.

12, 17, 19, 9, 2, 34, 15





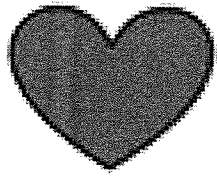
oval

# 34

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Find the mean of the frequency distribution below.

Class	Frequency
1 – 4	3
5 – 8	5
9 – 12	8
13 – 16	2



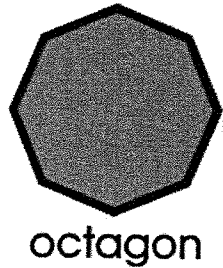
Heart

# 85 or 86

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The salary of all the employees at an accounting firm are shown below (in thousands of dollars).  
Find the standard deviation.

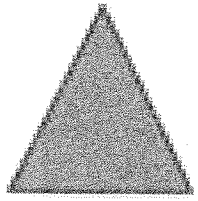
65, 50, 56, 54, 59, 69, 47, 63, 54



# 8.5

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A data set is bell-shaped with a mean of 42 and a SD of 6. What percent of data falls between 30 and 54?



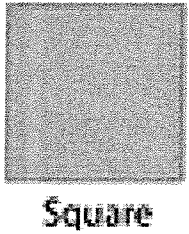
Triangle

# 16

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Find the mean of the data set below showing a sample of ages of people at a library.

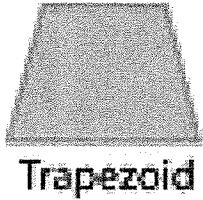
14, 23, 7, 29, 19, 14, 16, 10, 25



# 7.2

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What grade would a person receive at Edsel Ford HS if they had 215/300 formative points (worth 20% of their grade) and 320/360 summative points (worth 80% of their grade)? Round your answer to the nearest whole number.



$$X = 8$$

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A professor uses 4 categories to grade her students. Tests are 50% of the grade, the midterm and final are each 20% of the grade, and homework is 10% of the grade. Find the grade for a student that has a 91 test score, 86 on the midterm, 93 on the final, and 89 for homework. Leave the answer as a numerical grade, not a letter grade.



rectangle

95%

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A data set is skewed left and has a mean of 78 with a SD of 8. What percent of data falls between 62 and 94?