

Ages of Famous Personalities

Junior Level

Name _____



Part 1: Data Collection:

You will be seeing photographs of twenty famous people. As you see the photos, record the names of each individual and your best estimate as to the person's age. If you do not know the person, take your best guess as to the age from observing the photo. Actual ages will be the age at the end of the current year.

Famous Personality	Estimated Age	Actual Age
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
20.		

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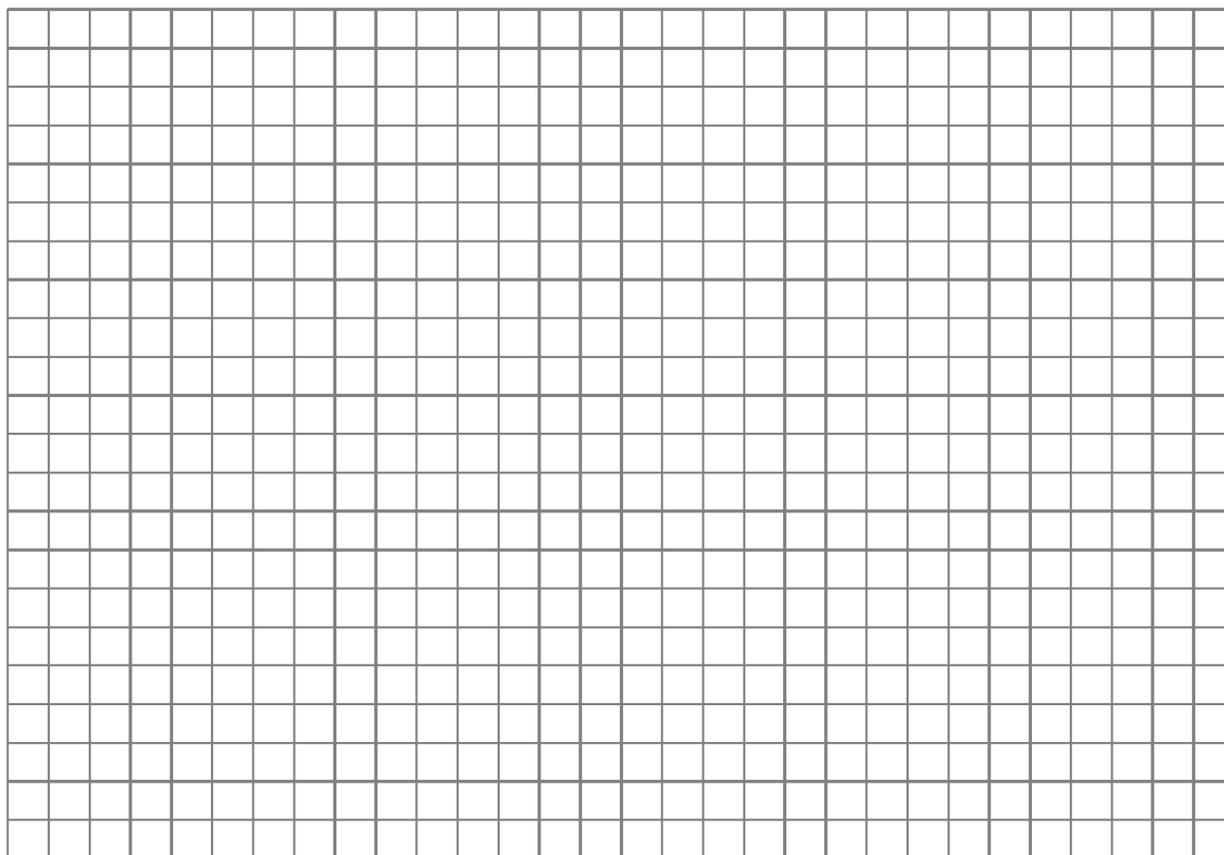
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Part 2: Analysis of the Data:

1. Using the grid below, prepare a scatter plot using the estimated age on the x -axis and the actual age on the y -axis. Be sure to label your axes and scale, and place a title on the graph.



2. Choosing two points, find the equation of the line of best fit (model equation) for your data.
3. If you had guessed all of the ages correctly, what would be the equation of the line representing these correct guesses?

4. Based upon your scatter plot, did you, in general, overestimate or underestimate the ages?
_____ Explain how you made this decision by examining the scatter plot.
5. a. What percent of your estimated ages were correct?
- b. What percent of your estimated ages were above the actual ages?
6. *Interpolate:* If you guessed that a person's age was 26, what would the exact age be based upon your model equation from question #1?
7. *Interpolate:* If a person's actual age was 37, what would have been the estimated age based upon your model equation from question #1?
8. *Extrapolate:* If a person's estimated age was 80, what would have been the actual age based upon your model equation from question #1?
9. a. What is your age? _____
- b. Based upon the your model equation from question #1, what would have been your estimated age?
10. a. Which personality had the greatest difference between the estimated age and the actual age?
- b. What is the AVERAGE of the differences between the actual ages and the estimated ages for all of the personalities?