

Grade 6 - Statistical Questions and Data Displays - Test

Common Core 6.SP.A.1, 6.SP.A.2, 6.SP.B.4, 6.SP.B.5a, 6.SP.B.5b · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This 45-minute test has 9 questions worth 20 points. It covers statistical questions, dot plots, histograms, range, outliers, and describing data (Common Core 6.SP.A and 6.SP.B). Show your work for full credit.

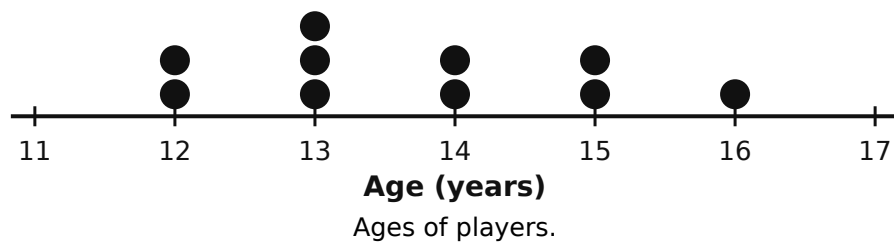
About this test

- Grade: Grade 6
- Chapter: Statistical Questions and Data Displays
- Standards: 6.SP.A.1, 6.SP.A.2, 6.SP.B.4, 6.SP.B.5a, 6.SP.B.5b
- Time: 45 minutes
- Total: 20 points

Question 1 - Statistical questions [2 pts]

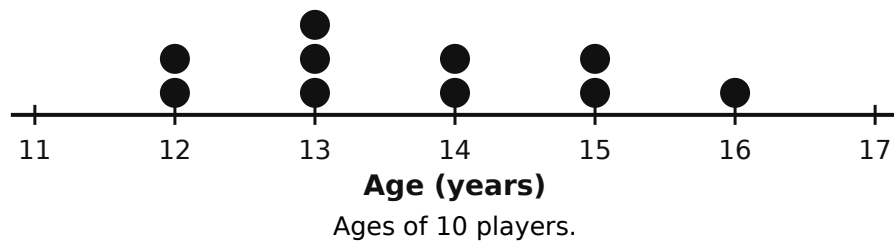
Decide whether each question is statistical. Explain. (a) "How many siblings does each student in the school have?" (b) "How many siblings does Noah have?"

Question 2 - Count observations [2 pts]



How many players are there? What is the most common age?

Question 3 - Range [2 pts]

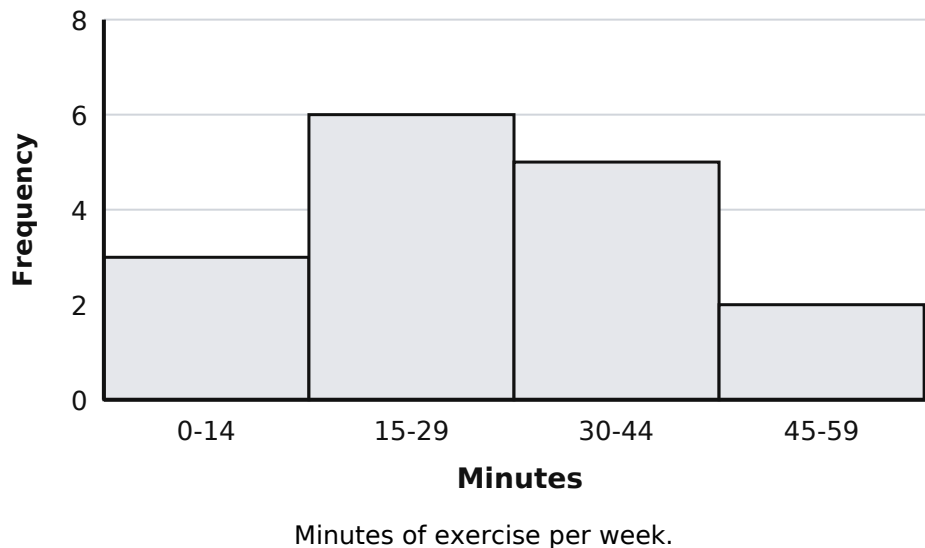


Find the range of the ages in the dot plot.

Question 4 - Fraction of data [2 pts]

What fraction of the players are 15 years or older? (Use the same ages.)

Question 5 - Histogram [2 pts]



How many students are in the histogram? How many exercised 30 minutes or more?

Question 6 - Describe the data [2 pts]

Describe the center, spread, and any outlier of the data set 4, 5, 5, 6, 6, 6, 7, 7, 8, 20.

Question 7 - Units and attribute [2 pts]

A scientist weighs 18 eggs in grams. Name the attribute, the unit, and the number of observations.

Question 8 - Build a dot plot [3 pts]

Make a dot plot for these 12 scores: 6, 7, 7, 8, 8, 8, 9, 9, 9, 9, 10, 10. Then give the range and the most common score.

Question 9 - Compare displays [3 pts]

Dot plot A shows quiz scores that range from 7 to 10. Dot plot B shows scores that range from 3 to 10. Which class has more variability? Explain and give both ranges.