

Kex

NAME

DATE

PERIOD

11

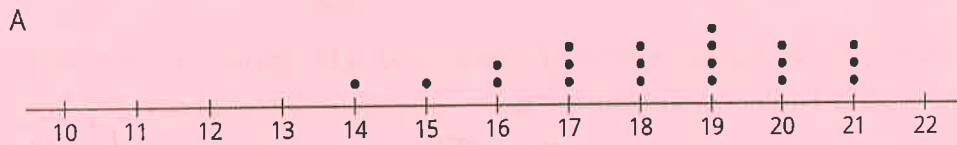
Unit 8, Lesson 4: Dot Plots

1. Clare recorded the amounts of time spent doing homework, in hours per week, by students in sixth, eighth, and tenth grades. She made a dot plot of the data for each grade and provided the following summary.

- Students in sixth grade tend to spend less time on homework than students in eighth and tenth grades.
- The homework times for the tenth-grade students are more alike than the homework times for the eighth-grade students.

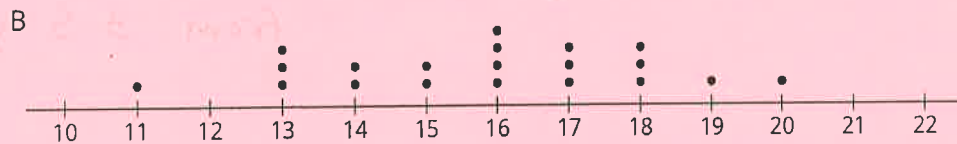
Use Clare's summary to match each dot plot to the correct grade (sixth, eighth, or tenth).

more spread out



8th

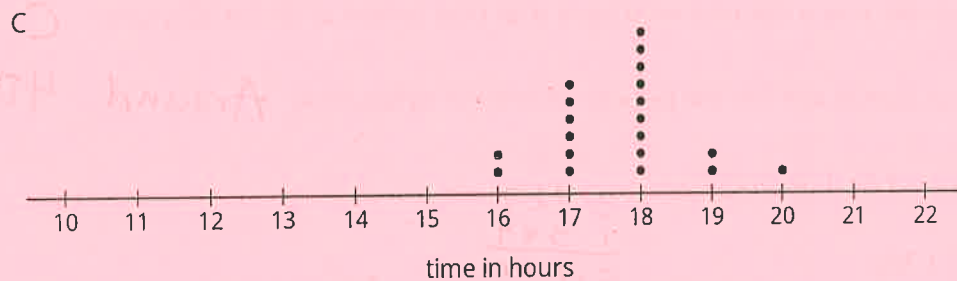
Less Time



6th

1/3

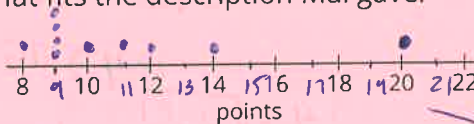
more concentrated similar



10th

2. Mai played 10 basketball games. She recorded the number of points she scored and made a dot plot. Mai said that she scored between 8 and 14 points in most of the 10 games, but one game was exceptional. During that game she scored more than double her typical score of 9 points. Use the number line to make a dot plot that fits the description Mai gave.

9 x 2 = 18 move



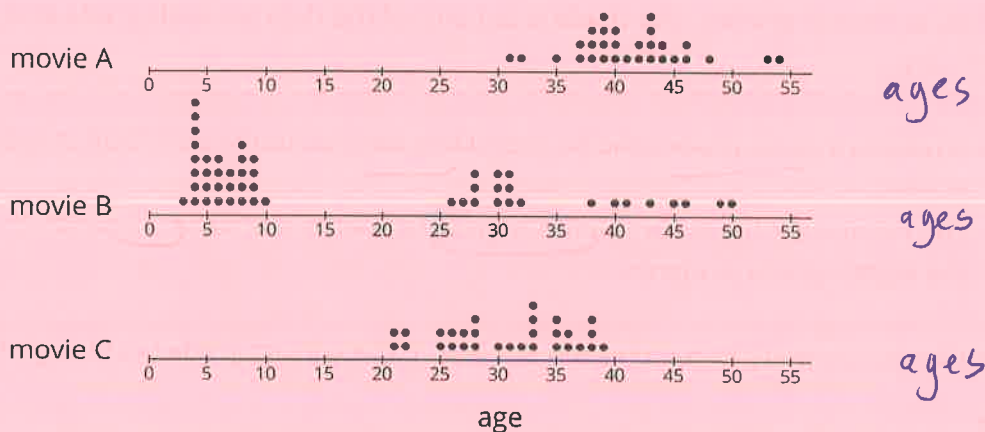
most → 9 dots around 9 points 8-14 range

NAME

DATE

PERIOD

3. A movie theater is showing three different movies. The dot plots represent the ages of the people who were at the Saturday afternoon showing of each of these movies.



a. One of these movies was an animated movie rated G for general audiences. Do you think it was Movie A, B, or C? Explain your reasoning.

B - There were audience members from 3-5 years old

b. Which movie has a dot plot with ages that center at about 30 years? C range is 20-40 years

c. What is a typical age for the people who were at Movie A? Around 40

4. Find the value of each expression.

a. $3.727 + 1.384$

$$\begin{array}{r} 3.727 \\ + 1.384 \\ \hline 5.111 \end{array}$$

b. $3.727 - 1.384$

$$\begin{array}{r} 3.727 \\ - 1.384 \\ \hline 2.343 \end{array}$$

c. $5.01 \cdot 4.8$

$$\begin{array}{r} 5.01 \\ \times 4.8 \\ \hline 40.08 \\ 20.04 \\ \hline 24.048 \end{array}$$

$5(4.8) + .01(4.8)$
 $24.0 + .048 = 24.048$

d. $5.01 \div 4.8$

$$\begin{array}{r} 1.04375 \\ 4.8 \overline{) 5.01000} \\ \underline{48} \\ 210 \\ \underline{192} \\ 180 \\ \underline{144} \\ 360 \\ \underline{336} \\ 240 \\ \underline{240} \\ 0 \end{array}$$

(from Unit 5, Lesson 13)