Math Worksheet for 5th Grade

Interpret data on line plots

Name: Due Date: Teacher: Parent Sign:

Question

1) How many pieces are shown in this plot?

2) Which weight is the mode (most common)?

3) What is the median weight?

4) What is the range of weights (largest minus smallest)?

5) What is the total weight of all pieces (give answer in ounces)?

Line Plot 2 – Weights (ounces):

$\frac{1}{4}$: 2, $\frac{1}{2}$: 5, $\frac{3}{4}$: 3, 1: 4

6) How many pieces are there total?

7) Which weight occurs most often?

8) What fraction of the pieces are $\frac{3}{4}$ ounce?

9) What is the total weight of all pieces (in ounces)?

10) If one more $\frac{1}{2}$-ounce piece is added, how many pieces would there be and what would be the mode then?

Line Plot 3 – Weights (ounces):

$\frac{1}{8}$: 2, $\frac{1}{4}$: 4, $\frac{3}{8}$: 1, $\frac{1}{2}$: 3, $\frac{5}{8}$: 2, $\frac{3}{4}$: 0, $\frac{7}{8}$: 1

11) How many pieces are shown?

12) How many more pieces are $\frac{1}{4}$ ounce than $\frac{3}{8}$ ounce?

13) What is the median weight?

14) What is the range of the weights?

15) What fraction of the pieces are heavier than $\frac{1}{2}$ ounce?

Line Plot 4 – Weights (ounces):

$\frac{1}{4}$: 1, $\frac{1}{2}$: 7, $\frac{3}{4}$: 4, 1: 2

16) How many pieces are there total?

17) Which weight is the mode?

18) If one 1-ounce piece is split into two $\frac{1}{2}$-ounce pieces, how many $\frac{1}{2}$-ounce pieces would there be and how many 1-ounce pieces would remain?

19) What is the average (mean) weight per piece?

20) How many more $\frac{1}{2}$-ounce pieces are there than $\frac{1}{4}$-ounce pieces?

Line Plot 5 – Weights (ounces):

$\frac{1}{8}$: 3, $\frac{3}{8}$: 5, $\frac{5}{8}$: 2, $\frac{7}{8}$: 4

21) How many pieces are shown?

22) Which weight is the mode?

23) How many pieces are equal to or heavier than $\frac{1}{2}$ ounce?

24) What is the total weight of all pieces?

25) If one $\frac{3}{8}$-ounce piece is removed, what is the new median weight?

Line Plot 6 – Weights (ounces):

$\frac{1}{8}$: 2, $\frac{1}{4}$: 3, $\frac{3}{8}$: 1, $\frac{1}{2}$: 2, $\frac{3}{4}$: 1

26) How many pieces are shown?

27) What is the median weight?

28) What is the total weight of all pieces? What is the mean (average) weight per piece? (Give mean as a fraction.)

29) What fraction of the pieces are $\frac{1}{4}$ ounce or smaller?

30) If one more $\frac{3}{8}$-ounce piece is added, what is the new median?

Line Plot 7 – Number of almonds per sample (ounces):

$\frac{1}{4}$: 3, $\frac{1}{2}$: 6, $\frac{3}{4}$: 5, 1: 0

31) How many samples are shown total?

32) How many fewer samples are $\frac{3}{4}$ ounce than $\frac{1}{2}$ ounce?

33) If two $\frac{1}{2}$-ounce samples are removed, what weight would be the mode then?

34) What is the range of weights?

35) If each $\frac{3}{4}$-ounce sample weighs $\frac{3}{4}$ ounce and there are 5 of them, what is their combined weight?

Line Plot 8 – Weights (ounces):

$\frac{1}{8}$: 1, $\frac{1}{4}$: 2, $\frac{3}{8}$: 2, $\frac{1}{2}$: 4, $\frac{5}{8}$: 1, $\frac{3}{4}$: 3

36) How many pieces are shown?

37) Approximately what percent of the pieces are $\frac{1}{2}$ ounce? (Round to the nearest whole percent.)

38) What is the median weight?

39) What is the total weight of all pieces (convert to eighths, then to ounces)?

40) If one $\frac{3}{4}$-ounce piece is changed to a 1-ounce piece, by how many ounces does the total weight increase?

Line Plot 9 – Weights (ounces):

$\frac{1}{4}$: 5, $\frac{3}{8}$: 2, $\frac{1}{2}$: 6, $\frac{5}{8}$: 3, $\frac{3}{4}$: 1

41) How many pieces are shown?

42) How many pieces are at least $\frac{1}{2}$ ounce?

43) What is the range of the weights?

44) Which weight is the mode?

45) If 2 more $\frac{1}{2}$-ounce pieces are added, what percentage of the pieces will be at least $\frac{1}{2}$ ounce? (Round to the nearest whole percent.)

Line Plot 10 – Weights (ounces):

$\frac{1}{8}$: 4, $\frac{1}{4}$: 3, $\frac{3}{8}$: 2, $\frac{1}{2}$: 3

46) How many pieces are shown?

47) What is the total weight of all pieces (in ounces)?

48) How many $\frac{1}{8}$-ounce pieces equal one $\frac{1}{2}$-ounce piece?

49) How many $\frac{1}{2}$-ounce pieces would fit exactly into a 2-ounce snack bag?

50) What is the average (mean) weight per piece? (Give as a fraction and a decimal rounded to three decimal places.)