Percentiles

1) What is a percentile?

Scores on a quiz are as follows: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

2) What percentage of scores are 1 or lower?

3) What percentage of scores are 4 or lower?

4) What percentage of scores are 10 or lower?

5) A score of 4 lies at which percentile?

6) What score lies at the 10th percentile?

7) What score lies at the 40th percentile?

8) What score lies at the 100th percentile?

9) A score of 7 lies at which percentile?

A preschool teacher tests her students to see how high they can count. Students are given blocks and told to count. They count until they make a mistake. There scores are as follows: 9, 10, 14, 15, 19, 20, 29, 49, 60, 100.

10) What percentage of scores are 14 or lower?

11) What percentage of scores are 20 or lower?

12) What percentage of scores are 30 or lower?

13) What percentage of scores are 49 or lower?

14) A score of 20 lies at which percentile?

15) What score lies at the 10th percentile?

16) What score lies at the 20th percentile?

17) What score lies at the 50th percentile?

18) What score lies at the 80th percentile?

19) A score of 100 lies at which percentile?

People are given a random number of M&Ms. The number each receives are: 7, 4, 1, 9, 2, 6, 8, 10, 3, 5.

20) How many people received 2 or fewer?

24) What number of M&Ms lies at the 20th percentile?

21) How many people received 5 or fewer?

25) What number of M&Ms lies at the 30th percentile?

22) How many people received 9 or fewer?

26) What number of M&Ms lies at the 70th percentile?

23) Getting 5 M&Ms lies at which percentile?

27) Getting 8 M&Ms lies at which percentile?

In a free throw challenge people shoot until they miss. The number of shots they make are listed below. 8, 19, 12, 16, 13, 15, 6, 17, 20, 11

28) What percentage of participants shoot 8 or fewer?

29) What percentage of participants shoot 13 or fewer?

30) What percentage of participants shoot 14 or fewer?

31) What percentage of participants shoot 17 or fewer?

32) A score of 12 lies at which percentile?

33) What score lies at the 10th percentile?

34) What score lies at the 40th percentile?

35) What score lies at the 50th percentile?

36) What score lies at the 80th percentile?

37) A score of 15 lies at which percentile?

Scores on a quiz are as follow: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	
38) What percentage of scores are 1 or lower?	42) What score lies at the 10 th percentile?
39) What percentage of scores are 7 or lower?	43) What score lies at the 45 th percentile?
40) What percentage of scores are 11 or lower?	44) What score lies at the 75 th percentile?
41) A score of 12 lies at which percentile?	45) A score of 19 lies at which percentile?
Students in a PE class do the following numbers of pushups: 24, 35, 21, 55, 44, 16, 33, 28, 51, 32, 49, 11, 38, 29, 41, 7, 50, 18, 45, 26	
46) What percentage do 21 or less?	50) What score lies at the 15 th percentile?
47) What percentage do 33 or less?	51) What score lies at the 30 th percentile?
48) What percentage do 34 or less?	52) What score lies at the 65 th percentile?
49) What percentage do 48 or less?	53) What score lies at the 90 th percentile?
50) Doing 38 pushups lies at which percentile?	55) Doing 51 pushups lies at which percentile?
Scores on a quiz are as follows: 3, 5, 5, 6, 8, 8, 9, 9, 10	
56) What percentage of scores are 1 or lower?	60) What score lies at the 10 th percentile?
57) What percentage of scores are 5 or lower?	61) What score lies at the 20 th percentile?
58) What percentage of scores are 6 or lower?	62) What score lies at the 30 th percentile?
59) A score of 3 lies at which percentile?	63) A score of 9 lies at which percentile?
A die is rolled several times. The outcomes are: 3, 5, 4, 5, 4, 2, 6, 2, 1, 3, 4, 6, 5, 3	
62) What percentage of rolls are 2 or lower?	65) Which outcome lies at the 7 th percentile?
63) What percentage of rolls are 4 or lower?	66) Which outcome lies at the 40 th percentile?
64) A roll of 3 lies at which percentile?	67) A roll of 6 lies at which percentile?
The heights of athletes on a team are given in inches: 76, 71, 68, 77, 71, 72, 78, 80, 76, 77, 81, 72, 73, 81, 77	
68) What percentage of heights are 74 or lower?	69) Which height lies at the 20 th percentile?
70) What percentage of heights are 80 or lower?	71) Which height lies at the 53 rd percentile?
72) A height of 74 lies at which percentile?	73) A height of 77 lies at which percentile?