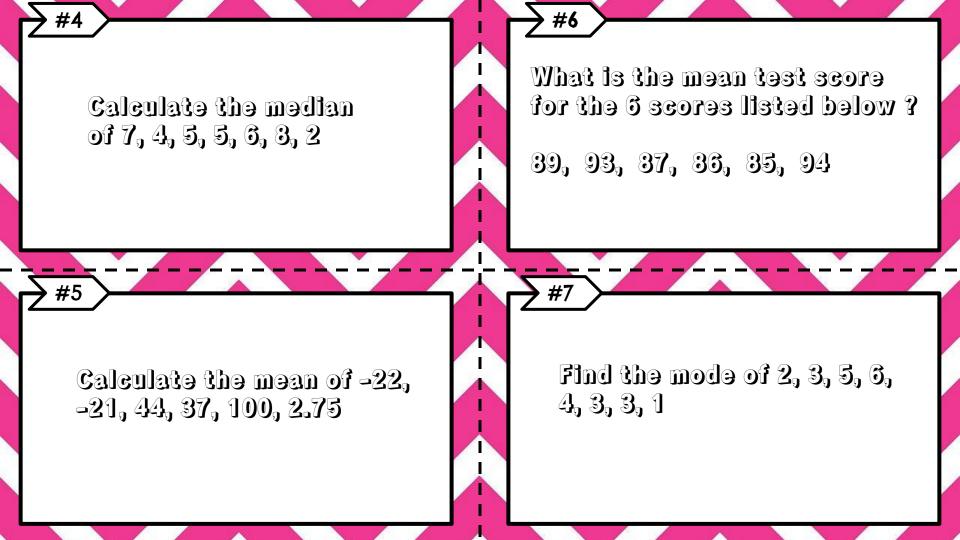# STATISTICS AND PROBABILITY

7TH GRADE

#2

Calculate the range of 43, -22, 5, 10, 31, 4
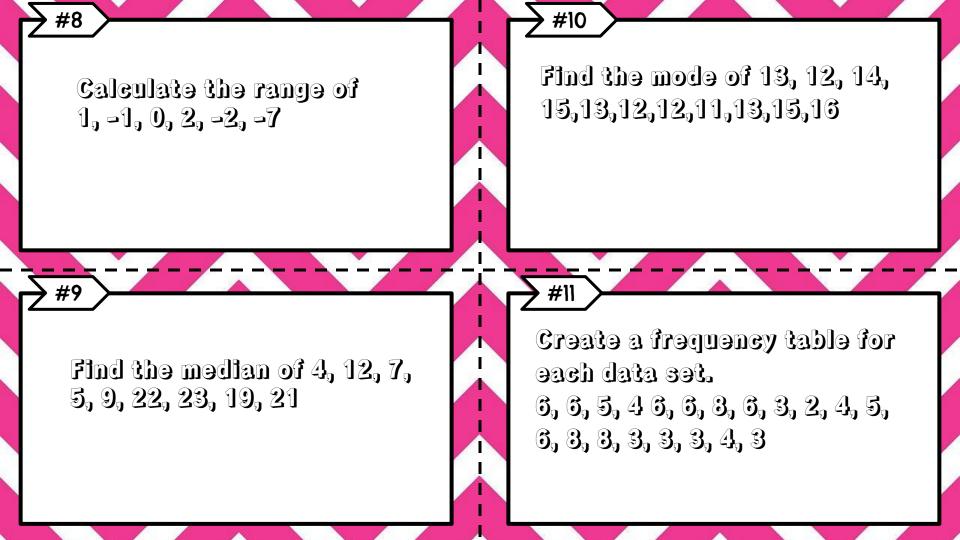
#1

Calculate the mean of 3.2, 2.5, 2.1, 3.7, 2.8, 2.0

#3

Find the mode of 7, 4, 5, 5, 6, 8, 2

#4

Calculate the median of 7, 4, 5, 5, 6, 8, 2

#6

What is the mean test score for the 6 scores listed below ?

89, 93, 87, 86, 85, 94

#5

Calculate the mean of -22, -21, 44, 37, 100, 2.75

#7

Find the mode of 2, 3, 5, 6, 4, 3, 3, 1

#8

Calculate the range of
1, -1, 0, 2, -2, -7

#10

Find the mode of 13, 12, 14,
15,13,12,12,11,13,15,16

#9

Find the median of 4, 12, 7,
5, 9, 22, 23, 19, 21

#11

Create a frequency table for
each data set.
6, 6, 5, 4 6, 6, 8, 6, 3, 2, 4, 5,
6, 8, 8, 3, 3, 3, 4, 3

#12

Create a frequency table for each data set.
24, 22, 26, 24, 25, 22, 21, 21

#14

8, 6, 9, 11, 12, 4, 9, 10, 9, 2
Mean : ?
Median : ?
Mode : ?
Range : ?

#13

Create a frequency table for each data set.
8, 6, 8, 7, 7, 5, 8, 5, 5, 6, 8, 4, 2

#15

152, 136, 171, 208, 193, 163, 124, 212, 216, 171
Mean : ?
Median : ?
Mode : ?
Range : ?

#16

Seven teenagers receive the allowances listed below. What is the median allowance ?

$15, $10, $12, $18, $14, $15, $8

#18

349, 562.5, 612, 349, 187, 612, 530, 716.5, 349, 902

Mean : ?

Median : ?

Mode : ?

Range : ?

#17

40.7, 23.1, 18.5, 43.6, 52.1, 50.9, 44.8, 23.1

Mean : ?

Median : ?

Mode : ?

Range : ?

#19

Find the range of these distances run by 6 marathon runners :

10 km, 15 km, 12 km, 14 km, 8 km, 16 km

#20

Find the range of these quiz scores :

93, 79, 83, 89, 90, 71, 85

#22

Find the mean of the whole numbers listed below.

1, 8, 7, 6, 8, 3, 2, 5, 4, 5

#21

Find the range of these race times given in seconds :

7.3 s, 8.4 s, 8.0 s, 7.5 s, 9.4 s, 8.7 s, 9.1 s

#23

Find the mean of the decimals listed below.

5.3, 5.5, 2.2, 4.8, 3.2

#24

The mean of 5 hourly wages is $5.95. What is the sum of these wages?

#26

Find the median weight of 5 seventh grade students whose weights in pounds are listed below.

82 lb, 102 lb, 75 lb, 91 lb, 89 lb

#25

The mean of a set of numbers is 123. The sum of the numbers is 2,214. How many numbers are in the set ?

#27

The ages of 10 college students are listed below. Find the median.

18, 24, 20, 35, 19, 23, 26, 23, 19, 20

#28

The test scores of 9 seventh grade students are listed below. Find the mode.

82, 92, 75 , 91, 92, 89, 95, 100, 86

#30

The range of a set of numbers is 1,362. The greatest number is 2,172.

What is the least number ?

#29

The weights of 9 students, measured in pounds, are recorded below. Find the mean weight.

135, 120, 116, 119, 121, 125, 135, 131, 123

TASK CARDS - ANSWERS

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

1 2.7

2 65

3 5

4 5

5 23.5

6 89

7 3

8 9

9 12

10 12 and 13

11

Values	Frequency	Cumulative frequency	Relative frequency
2-3	6	6	30%
4-5	5	11	25%
6-7	6	17	30%
8-9	3	20	15%

12

Values	Frequency	Cumulative frequency	Relative frequency
20-21	2	2	25%
22-23	2	4	25%
24-25	3	7	37.5%
26-27	1	8	12.5%

13

Values	Frequency	Cumulative frequency	Relative frequency
2-3	1	1	7.69%
4-5	4	5	30.77%
6-7	4	9	30.77%
8-9	4	13	30.77%

14 8/9/9/10

15 174.6/171/171/92

16 $14

17 37.7/42.15/23.1/33.6

18 516.9/546.25/349/715

19 16 km - 8 km = 8 km

20 93 - 71 = 22

21 9.4 s - 7.3 s = 2.1 s

22 49 ÷ 10 = 4.9

23 21 ÷ 5 = 4.2

24 5 x $5.95 = $29.75

25 2,214 ÷ 123 = 18
There are 18 numbers in the set.

26 Median = 89 lb

27 20 + 23 = 43
43 ÷ 2 = 21.5
Median = 21.5

28 Mode = 92

29 135 + 120 + 116 + 119 + 121 + 125 + 135 + 131 + 123 = 1,125
1,125 ÷ 9 = 125

30 2,172 - 1,362 = 810
The least number is 810.