

Name : _____

Percentile Practice

1 Two hundred people who auditioned for a game show each received a different mark.

Which percentile rank corresponds to the mark Paul received if it is less than 50 other marks?

Paul's mark corresponds to the _____ percentile rank.

2 The trainer at a fitness club recorded the number of consecutive sit-ups that each member can do. The results are given below:

$\underbrace{50, 50, 51, \dots, 59}_{83 \text{ members}}$

$\underbrace{60, 61, 61, \dots, 69}_{91 \text{ members}}$

$\underbrace{71, 72, 73, \dots, 78}_{80 \text{ members}}$

$\underbrace{80, 80, 80, \dots, 95}_{47 \text{ members}}$

Fred did 72 sit-ups in a row.

What is Fred's percentile rank?

Fred's percentile rank is _____.

3 The data listed below represent the marks obtained by 32 students on a mathematics test.

68	51	84	78	64	66	66	48	98	71	75
53	58	64	62	58	82	78	54	90	81	63
70	72	34	73	58	63	72	54	82	73	

What is the percentile rank of a student with a mark of 66%?

The percentile rank is _____.

- 4 The ages of the residents of St-Georges's nursing home are shown in the table below.

**Ages of Residents of
St-Georges's Nursing Home**

Age	Frequency
Under 90	10
90	4
91	6
92	5
93	8
94	7
95	6
96	5
97 and over	4

What age corresponds to a percentile rank of 71?

The age corresponding to a percentile rank of 71 is _____ years.

- 5 The height, in centimetres, of a group of elementary-school children is represented below.

$\underbrace{112, 115, 115, \dots, 122}_{80 \text{ students}} \quad \underbrace{123, 123, 124, \dots, 126}_{70 \text{ students}} \quad \underbrace{127, 129, 130, \dots, 132}_{73 \text{ students}}$

What is the percentile rank of a student who is 123 cm tall?

The percentile rank of a student who is 123 cm tall is _____.

- 6 The 225 Secondary IV students of a school wrote a general knowledge exam. Their scores are noted in the table below.

**General Knowledge Exam
Secondary IV**

Score	Number of students
10	8
9	27
8	49
7	20
6	31
5	42
4	18
3	7
2	2
1	15
0	6

What is the score of a student whose percentile rank is 40?

The score of a student having a percentile rank of 40 is _____.

- 7 Each year, *Macleans* magazine publishes the ranking of 463 high schools in Quebec.

What is the percentile rank of a school that is in the 173rd position?

The percentile rank is _____.

8 A hockey league keeps a record of the number of points scored by each of its players. Fred plays in this league.

Of the 595 players in this league,

- 188 scored fewer points than Fred did
- 405 scored more points than Fred did

What is the percentile associated with the number of points Fred scored?

The number of points Fred scored is associated with the _____ percentile.

9 The height of the players in a basketball league has been measured. Mario plays in this league.

Of the 240 players in this league:

- 28 players are shorter than Mario
- 2 are the same height as Mario

What percentile is associated with Mario's height?

Mario's height is associated with the _____ percentile.

Answers: Percentile Practice

- 1 Paul's mark corresponds to the 75th percentile rank.
- 2 Fred's percentile rank is 58 or 59.
- 3 The percentile rank is 50.
- 4 The age corresponding to a percentile rank of 71 is 94.
Note: Accept 91 as the answer if younger residents were ranked higher.
- 5 The percentile rank of a student who is 123 cm tall is 36 or 37.
- 6 The score of a student with a percentile rank of 40 is 5.
- 7 The percentile rank is **63**.
- 8 The number of points Fred scored is associated with the **32nd** percentile.
- 9 Mario's height is associated with the **13th** percentile.