

Outcome 1 - Semi interquartile range

Bronze example

Examples...

Calculate the semi-interquartile range for the list of numbers below:-

20, 21, 21, 22, 23, 25, 28, 30, 31, 33, 34

Five figure summary...

L = 20
 $Q_1 = 21$
 $Q_2 = 25$
 $Q_3 = 31$
 H = 34

Semi I.R. = $(Q_3 - Q_1) \div 2$

$(31 - 21) \div 2 = 5$

Silver example

Examples...

Calculate the semi-interquartile range for the list of numbers below:-

33, 34, 35, 37, 38, 39, 40, 42, 44, 45

Five figure summary...

L = 33
 $Q_1 = 35$
 $Q_2 = 38.5$
 $Q_3 = 42$
 H = 45

Semi I.R. = $(Q_3 - Q_1) \div 2$

$(42 - 35) \div 2 = 3.5$

Gold example

Examples...

Calculate the semi-interquartile range for the list of numbers below:-

31, 34, 35, 38, 38, 39, 41, 44

Five figure summary...

L = 31
 $Q_1 = 34.5$
 $Q_2 = 38$
 $Q_3 = 40$
 H = 44

Semi I.R. = $(Q_3 - Q_1) \div 2$

$(40 - 34.5) \div 2 = 2.75$

Bronze Questions

Calculate the semi-interquartile range for the following data sets...

- 1 2, 6, 7, 10, 12, 14, 15
- 2 47, 35, 32, 41, 33, 48, 37
- 3 71, 74, 69, 63, 65, 70, 75
- 4 91, 88, 95, 79, 83, 94, 91, 82, 76, 93, 87
- 5 51, 49, 52, 50, 56, 46, 48, 41, 49, 58, 43
- 6 14, 18, 23, 27, 15, 17, 21, 12, 20, 19, 24

Silver Questions

Calculate the semi-interquartile range for the following data sets...

- 1 3, 5, 9, 11, 15, 17
- 2 52, 57, 55, 53, 61, 58
- 3 87, 81, 86, 82, 90, 89
- 4 28, 22, 26, 19, 27, 29, 18, 30, 25, 21
- 5 77, 72, 78, 74, 75, 70, 79, 71, 69, 76
- 6 99, 95, 92, 90, 93, 98, 93, 94, 97, 95

Gold Questions

Calculate the semi-interquartile range for the following data sets...

- 1 3, 5, 7, 8, 9, 12, 14, 15
- 2 65, 62, 67, 60, 68, 63, 64, 70
- 3 23, 25, 21, 20, 28, 30, 29, 19
- 4 48, 41, 39, 45, 48, 51, 46, 37
- 5 86, 82, 89, 85, 81, 80, 83, 78
- 6 111, 115, 112, 116, 118, 119, 108, 117

Bronze Answers

1. $(14 - 6) \div 2 = 4$

2. $(47 - 33) \div 2 = 7$

3. $(74 - 65) \div 2 = 4·5$

4. $(93 - 82) \div 2 = 5·5$

5. $(52 - 46) \div 2 = 3$

6. $(23 - 15) \div 2 = 4$

Silver Answers

1. $(15 - 5) \div 2 = 5$

2. $(58 - 53) \div 2 = 2·5$

3. $(89 - 82) \div 2 = 3·5$

4. $(28 - 21) \div 2 = 3·5$

5. $(77 - 71) \div 2 = 3$

6. $(97 - 93) \div 2 = 2$

Gold Answers

1. $(13 - 6) \div 2 = 3·5$

2. $(67·5 - 62·5) \div 2 = 2·5$

3. $(28·5 - 20·5) \div 2 = 4$

4. $(48 - 40) \div 2 = 4$

5. $(117·5 - 111·5) \div 2 = 3$

6. $(39·5 - 35·5) \div 2 = 2$