

Q2-Q3 (Inverse Mean - Range) Day 149 Name: _____

1. A pupil does four practice tests over the holidays. Below are the scores they achieved for tests 1-3.

- **Test 1** = 12
- **Test 2** = 15
- **Test 3** = 13

a) What was their **score for test 4** if their **mean (average) score for the four tests was 16**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **four tests** they completed over the holidays? Write your answer in the space below.

2. A pupil does four practice tests over the holidays. Below are the scores they achieved for tests 1-3.

- **Test 1** = 31
- **Test 2** = 26
- **Test 3** = 12

a) What was their **score for test 4** if their **mean (average) score for the four tests was 21**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **four tests** they completed over the holidays? Write your answer in the space below.

3. A pupil does five practice tests over the holidays. Below are the scores they achieved for tests 1-4.

- **Test 1** = 13
- **Test 2** = 19
- **Test 3** = 20
- **Test 4** = 15

a) What was their **score for test 5** if their **mean (average) score for the five tests was 17**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **five tests** they completed over the holidays? Write your answer in the space below.

4. A pupil does five practice tests over the holidays. Below are the scores they achieved for tests 1-4.

- **Test 1** = 27
- **Test 2** = 22
- **Test 3** = 19
- **Test 4** = 24

a) What was their **score for test 5** if their **mean (average) score for the five tests was 23**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **five tests** they completed over the holidays? Write your answer in the space below.

5. A pupil does six practice tests over the holidays. Below are the scores they achieved for tests 1-5.

- **Test 1** = 11
- **Test 2** = 16
- **Test 3** = 12
- **Test 4** = 19
- **Test 5** = 14

a) What was their **score for test 6** if their **mean (average) score for the six tests was 15**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **six tests** they completed over the holidays? Write your answer in the space below.

6. A pupil does six practice tests over the holidays. Below are the scores they achieved for tests 1-5.

- **Test 1** = 22
- **Test 2** = 21
- **Test 3** = 23
- **Test 4** = 27
- **Test 5** = 24

a) What was their **score for test 6** if their **mean (average) score for the six tests was 25**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **six tests** they completed over the holidays? Write your answer in the space below.

7. A pupil does seven practice tests over the holidays. Below are the scores they achieved for tests 1-6.

- **Test 1** = 10
- **Test 2** = 11
- **Test 3** = 9
- **Test 4** = 13
- **Test 5** = 15
- **Test 6** = 12

a) What was their **score for test 7** if their **mean (average) score for the seven tests was 13**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **seven tests** they completed over the holidays? Write your answer in the space below.

8. A pupil does seven practice tests over the holidays. Below are the scores they achieved for tests 1-6.

- **Test 1** = 29
- **Test 2** = 24
- **Test 3** = 27
- **Test 4** = 22
- **Test 5** = 28
- **Test 6** = 30

a) What was their **score for test 7** if their **mean (average) score for the seven tests was 26**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **seven tests** they completed over the holidays? Write your answer in the space below.

9. A pupil does eight practice tests over the holidays. Below are the scores they achieved for tests 1-7.

- **Test 1** = 20
- **Test 2** = 14
- **Test 3** = 25
- **Test 4** = 22
- **Test 5** = 18
- **Test 6** = 16
- **Test 7** = 25

a) What was their **score for test 8** if their **mean (average) score for the eight tests was 19**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **eight tests** they completed over the holidays? Write your answer in the space below.

10. A pupil does eight practice tests over the holidays. Below are the scores they achieved for tests 1-7.

- **Test 1** = 16
- **Test 2** = 18
- **Test 3** = 19
- **Test 4** = 20
- **Test 5** = 25
- **Test 6** = 28
- **Test 7** = 35

a) What was their **score for test 8** if their **mean (average) score for the eight tests was 24**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **eight tests** they completed over the holidays? Write your answer in the space below.

11. A pupil does nine practice tests over the holidays. Below are the scores they achieved for tests 1-8.

- **Test 1** = 14
- **Test 2** = 15
- **Test 3** = 17
- **Test 4** = 16
- **Test 5** = 21
- **Test 6** = 25
- **Test 7** = 24
- **Test 8** = 30

a) What was their **score for test 9** if their **mean (average) score for the nine tests was 20**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **nine tests** they completed over the holidays? Write your answer in the space below.

12. A pupil does ten practice tests over the holidays. Below are the scores they achieved for tests 1-9.

- **Test 1** = 17
- **Test 2** = 21
- **Test 3** = 26
- **Test 4** = 28
- **Test 5** = 30
- **Test 6** = 32
- **Test 7** = 33
- **Test 8** = 30
- **Test 9** = 29

a) What was their **score for test 10** if their **mean (average) score for the ten tests was 29**? Write your answer in the space below.

b) Look again at test scores above. What is the **range** of the scores for the **ten tests** they completed over the holidays? Write your answer in the space below.

Answers

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|----------|-------|
| 1. a) 24 | b) 12 |
| 2. a) 15 | b) 19 |
| 3. a) 18 | b) 7 |
| 4. a) 23 | b) 8 |
| 5. a) 18 | b) 8 |
| 6. a) 33 | b) 12 |
| 7. a) 21 | b) 12 |
| 8. a) 22 | b) 8 |
| 9. a) 12 | b) 13 |
| 10.a) 31 | b) 19 |
| 11.a) 18 | b) 16 |
| 12.a) 44 | b) 27 |