

**Q4 (Inverse Mean/Range) Day 50 Name:** \_\_\_\_\_

1. John measures the **length** of **five** frogs in his garden. The **mean (average) length of the frogs is 6cm**. Below is the lengths of four of the frogs.

<b>Frog 1</b>	3cm
<b>Frog 2</b>	5cm
<b>Frog 3</b>	7cm
<b>Frog 4</b>	4cm
<b>Frog 5</b>	_____ cm

a) What is the **length** of the **fifth** frog? Write your answer in the space in the table beside frog 5.

b) Look again at the five measurements John made above. What is the **range** of the frog sizes, **including** frog 5? Write your answer in the space below.

\_\_\_\_\_ cm

2. Sam measures the **length** of the **five** dogs her friends own. The **mean (average) length of the pencils is 42cm**. Below is the lengths of four of the dogs.

<b>Dog 1</b>	38cm
<b>Dog 2</b>	27cm
<b>Dog 3</b>	65cm
<b>Dog 4</b>	52cm
<b>Dog 5</b>	_____cm

a) What is the **length** of the **fifth** dog? Write your answer in the space in the table beside dog 5.

b) Look again at the five measurements Sam made above. What is the **range** of the dog sizes, **including** dog 5? Write your answer in the space below.

\_\_\_\_\_ cm

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3. Ruth uses a timer to record how fast her **5** athletes run the 60-metre sprint. The **mean (average) length of the times is 7 seconds**. Below are the times for **four** of the athletes.

<b>Athlete 1</b>	5 secs
<b>Athlete 2</b>	4 secs
<b>Athlete 3</b>	8 secs
<b>Athlete 4</b>	9 secs
<b>Athlete 5</b>	_____secs

a) What was the **fifth** athletes time? Write your answer in the space in the table beside Athlete 5.

b) Look again at the five times Ruth recorded above. What is the **range** of the times, **including** Athlete 5? Write your answer in the space below.

\_\_\_\_\_ secs

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4. Derek measures the **height** of each of his **five** best friends. The **mean (average) height of the friends is 136cm**. Below is the heights of four of the friends.

<b>Friend 1</b>	111cm
<b>Friend 2</b>	134cm
<b>Friend 3</b>	151cm
<b>Friend 4</b>	158cm
<b>Friend 5</b>	_____cm

a) What is the **height** of the **fifth** friend? Write your answer in the space in the table beside friend 5.

b) Look again at the five measurements Derek made above. What is the **range** of the friends' heights, **including** friend 5? Write your answer in the space below.

\_\_\_\_\_ cm

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5. Toby measures the **length** that **five** friends were able to jump. The **mean (average) length of the jumps is 73cm**. Below is the lengths of four of the jumps.

<b>Jump 1</b>	93cm
<b>Jump 2</b>	51cm
<b>Jump 3</b>	75cm
<b>Jump 4</b>	81cm
<b>Jump 5</b>	_____cm

a) What is the **length** of the **fifth** jump? Write your answer in the space in the table beside jump 5.

b) Look again at the five measurements Toby made above. What is the **range** of the jump sizes, **including** jump 5? Write your answer in the space below.

\_\_\_\_\_ cm

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6. Michael measures the **length** of each of the **five** rooms in his house. The **mean (average) length of the rooms is 236cm**. Below is the lengths of four of the rooms.

<b>Room 1</b>	384cm
<b>Room 2</b>	137cm
<b>Room 3</b>	211cm
<b>Room 4</b>	315cm
<b>Room 5</b>	_____cm

a) What is the **length** of the **fifth** room? Write your answer in the space in the table beside room 5.

b) Look again at the five measurements Michael made above. What is the **range** of the room sizes, **including** room 5? Write your answer in the space below.

\_\_\_\_\_ cm

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7. Max measures the **length** of each of the **six** pencils in his pencil case. The **mean (average) length of the pencils is 14cm**. Below is the lengths of **five** of the pencils.

<b>Pencil 1</b>	9cm
<b>Pencil 2</b>	13cm
<b>Pencil 3</b>	11cm
<b>Pencil 4</b>	15cm
<b>Pencil 5</b>	18cm
<b>Pencil 6</b>	_____cm

a) What is the **length** of the **sixth** pencil? Write your answer in the space in the table beside pencil 6.

b) Look again at the six measurements Max made above. What is the **range** of the pencil sizes, **including** pencil 6? Write your answer in the space below.

\_\_\_\_\_ cm

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8. Bobby measures the **length** of each of the **six** football pitches. The **mean (average) length of the pitches is 92m**. Below is the lengths of **five** of the pitches.

<b>Pitch 1</b>	97m
<b>Pitch 2</b>	102m
<b>Pitch 3</b>	83m
<b>Pitch 4</b>	90m
<b>Pitch 5</b>	103m
<b>Pitch 6</b>	_____m

a) What is the **length** of the **sixth** pitch? Write your answer in the space in the table beside pitch 6.

b) Look again at the six measurements Bobby made above. What is the **range** of the pitch sizes, **including** pitch 6? Write your answer in the space below.

\_\_\_\_\_ m

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9. Clare measures the **length** of each of the **six** books in her bookcase. The **mean (average) length of the books is 27cm**. Below is the lengths of **five** of the books.

<b>Book 1</b>	17cm
<b>Book 2</b>	23cm
<b>Book 3</b>	35cm
<b>Book 4</b>	7cm
<b>Book 5</b>	26cm
<b>Book 6</b>	_____cm

a) What is the **length** of the **sixth** book? Write your answer in the space in the table beside book 6.

b) Look again at the six measurements Clare made above. What is the **range** of the book sizes, **including** book 6? Write your answer in the space below.

\_\_\_\_\_ cm

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10. Barney measures the **length** of each of the **seven** pencils in his pencil case. The **mean (average) length of the pencils is 15.6cm**. Below is the lengths of six of the pencils.

<b>Pencil 1</b>	8.9cm
<b>Pencil 2</b>	18.9cm
<b>Pencil 3</b>	21cm
<b>Pencil 4</b>	15.2cm
<b>Pencil 5</b>	26.6cm
<b>Pencil 6</b>	17cm
<b>Pencil 7</b>	_____cm

a) What is the **length** of the **seventh** pencil? Write your answer in the space in the table beside pencil 7.

b) Look again at the seven measurements Barney made above. What is the **range** of the pencil sizes, **including** pencil 7? Write your answer in the space below.

\_\_\_\_\_ cm

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11. Annie measures the **length** of each of the **seven** cars in her garage. The **mean (average) length of the cars is 3.7m**. Below is the lengths of six of the cars.

<b>Car 1</b>	2.63m
<b>Car 2</b>	4.5m
<b>Car 3</b>	3.3m
<b>Car 4</b>	5m
<b>Car 5</b>	3.62cm
<b>Car 6</b>	3m
<b>Car 7</b>	_____m

a) What is the **length** of the **seventh** car? Write your answer in the space in the table beside car 7.

b) Look again at the seven measurements Annie made above. What is the **range** of the car sizes, **including** car 7? Write your answer in the space below.

\_\_\_\_\_ m

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12. Chloe measures the **speed** of each her family members in filling the dishwasher. The **mean (average) length of time is 54.8 seconds**. Below is the time for six of the family members.

<b>Member 1</b>	38.6 secs
<b>Member 2</b>	64 secs
<b>Member 3</b>	54.32 secs
<b>Member 4</b>	48.7 secs
<b>Member 5</b>	59.9 secs
<b>Member 6</b>	53 secs
<b>Member 7</b>	_____secs

a) What is the **length** of time the **seventh** family member took? Write your answer in the space in the table beside member 7.

b) Look again at the seven times Chloe made above. What is the **range** of the times, **including** member 7? Write your answer in the space below.

\_\_\_\_\_secs

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**Answers**

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|--------------------|-----------------|
| <b>1. a) 11</b>    | <b>b) 8</b>     |
| <b>2. a) 28</b>    | <b>b) 38</b>    |
| <b>3. a) 9</b>     | <b>b) 5</b>     |
| <b>4. a) 126</b>   | <b>b) 47</b>    |
| <b>5. a) 65</b>    | <b>b) 42</b>    |
| <b>6. a) 133</b>   | <b>b) 251</b>   |
| <b>7. a) 18</b>    | <b>b) 9</b>     |
| <b>8. a) 77</b>    | <b>b) 26</b>    |
| <b>9. a) 54</b>    | <b>b) 47</b>    |
| <b>10.a) 1.6</b>   | <b>b) 25</b>    |
| <b>11.a) 3.85</b>  | <b>b) 2.37</b>  |
| <b>12.a) 65.08</b> | <b>b) 26.48</b> |