

Q2 (Inverse Average) Day 63 Name: _____

1. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2014 - 2017**.

- 2014 Season = 12
- 2015 Season = 9
- 2016 Season = 15
- 2017 Season = 14
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 13 goals** over the **5 seasons from 2014 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

2. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2014 - 2017**.

- 2014 Season = 14
- 2015 Season = 12
- 2016 Season = 20
- 2017 Season = 18
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 16 goals** over the **5 seasons from 2014 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

3. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2014 - 2017**.

- 2014 Season = 12
- 2015 Season = 20
- 2016 Season = 30
- 2017 Season = 14
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 21 goals** over the **5 seasons from 2014 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

4. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2013 - 2017**.

- 2013 Season = 12
- 2014 Season = 7
- 2015 Season = 8
- 2016 Season = 19
- 2017 Season = 11
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 13 goals** over the **6 seasons from 2013 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

5. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2013 - 2017**.

- 2013 Season = 10
- 2014 Season = 9
- 2015 Season = 8
- 2016 Season = 13
- 2017 Season = 15
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 11 goals** over the **6 seasons from 2013 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

6. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2013 - 2017**.

- 2013 Season = 17
- 2014 Season = 19
- 2015 Season = 23
- 2016 Season = 25
- 2017 Season = 22
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 21 goals** over the **6 seasons from 2013 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

7. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2012 - 2017**.

- 2012 Season = 14
- 2013 Season = 9
- 2014 Season = 17
- 2015 Season = 18
- 2016 Season = 6
- 2017 Season = 22
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 13 goals** over the **7 seasons from 2012 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

8. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2012 - 2017**.

- 2012 Season = 10
- 2013 Season = 17
- 2014 Season = 12
- 2015 Season = 13
- 2016 Season = 15
- 2017 Season = 19
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 15 goals** over the **7 seasons from 2012 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

9. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2012 - 2017**.

- 2012 Season = 20
- 2013 Season = 27
- 2014 Season = 15
- 2015 Season = 10
- 2016 Season = 26
- 2017 Season = 14
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 21 goals** over the **7 seasons from 2012 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

10. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2007 - 2017**.

- 2007 Season = 9
- 2008 Season = 10
- 2009 Season = 15
- 2010 Season = 9
- 2011 Season = 6
- 2012 Season = 21
- 2013 Season = 23
- 2014 Season = 14
- 2015 Season = 9
- 2016 Season = 6
- 2017 Season = 25
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 13 goals** over the **12 seasons from 2007 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

11. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2007 - 2017**.

- 2007 Season = 17
- 2008 Season = 15
- 2009 Season = 25
- 2010 Season = 10
- 2011 Season = 15
- 2012 Season = 20
- 2013 Season = 30
- 2014 Season = 14
- 2015 Season = 31
- 2016 Season = 26
- 2017 Season = 28
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 21 goals** over the **12 seasons from 2007 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

12. A striker plays for his local football team. Each season they record the number of goals they score. Below is the number of goals they scored from **2007 - 2017**.

- 2007 Season = 30
- 2008 Season = 36
- 2009 Season = 27
- 2010 Season = 39
- 2011 Season = 24
- 2012 Season = 35
- 2013 Season = 15
- 2014 Season = 51
- 2015 Season = 27
- 2016 Season = 31
- 2017 Season = 36
- 2018 Season = _____

a) They will receive a bonus if they score an **mean (average) of 32 goals** over the **12 seasons from 2007 – 2018**. What is the **minimum** number of goals they have to score in **2018** to ensure they receive the bonus? Write your answer in the space above beside 2018 season.

b) Look again at the striker's goal scoring record, **including 2018 above**. What is the **range** for the number of goals the striker has scored? Write your answer in the space below.

Answers

- | | |
|-----------------|--------------|
| 1. a) 15 | b) 6 |
| 2. a) 16 | b) 8 |
| 3. a) 29 | b) 18 |
| 4. a) 21 | b) 14 |
| 5. a) 11 | b) 7 |
| 6. a) 20 | b) 8 |
| 7. a) 5 | b) 17 |
| 8. a) 19 | b) 9 |
| 9. a) 35 | b) 25 |
| 10.a) 9 | b) 19 |
| 11.a) 21 | b) 21 |
| 12.a) 33 | b) 36 |