FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 2

Comparing Data Sets

Materials
- You **cannot** use a calculator for **questions** with this symbol.

Instructions
- Answer **all** questions.
- Answer questions on separate paper.

Information and Advice
- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.

Q1   A 10 km running race is held every year.

Below is a table showing the ten fastest times from 2021 and 2020.

Time (minutes)										
2021	44	42	51	47	41	48	49	40	43	46
2020	52	48	46	43	41	46	39	46	42	45

In which year was the average time lower?

[3 marks]

Q2   Three students sit three maths exams. Their scores are shown in the table below.

	Exam Score (%)		
Student	**Exam 1**	**Exam 2**	**Exam 3**
Simon	78	82	73
Lydia	84	86	71
Daniel	89	70	76

2(a)   Who had the lowest average score across the three exams?

[3 marks]

2(b)   Which exam had the highest average score among the three students?

[2 marks]

2(c)   Which student has the most consistent scores?

[2 marks]

10

Turn over ▶

Q3   Luke is comparing the price of four different car insurance companies, offering fully comprehensive insurance and third party, fire and theft insurance.

The information he finds is shown in the table below.

	Cheap Cover	Easy Insure	No. 1 Insurance	Your Car
Fully Comprehensive	£290	£360	£310	£325
Third Party, Fire and Theft	£175	£160	£190	£200

3(a)   Calculate the average cost of purchasing fully comprehensive insurance.

[2 marks]

3(b)   Which insurance type has the more consistent prices?

[2 marks]

Q4   The table shows information on the amount of mobile phones sold by two different mobile phone companies in one week.

	Number of Phones Sold						
Company	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Phones Direct	45	49	31	38	58	67	61
Value for Calls	49	47	42	45	50	52	51

4(a)   Which company had the highest average sales over the week?

[2 marks]

4(b)   Which company has the most consistent sales over the week?

[2 marks]

Turn over ▶

Q5 Below shows a table showing customer ratings at three different hotels.

	Customer Rating (Out of 10)									
Hotel 1	7	8	6	5	8	3	9	6	8	7
Hotel 2	6	7	6	8	7	8	6	6	8	7
Hotel 3	5	6	10	2	4	7	8	5	6	6

5(a) Which hotel had the highest average customer ratings?

[3 marks]

5(b) Which hotel has the most consistent customer ratings?

[2 marks]

Q6 Three cyclists take part in four races. Their times are shown in the table below.

	Time (seconds)		
Cyclist	Time Trial 1	Time Trial 2	Time Trial 3
Tom	91	85	84
Stewart	101	93	82
Jack	87	83	84

6(a) Which cyclist had the slowest average time?

[2 marks]

6(b) Which cyclist had the least consistent time?

[2 marks]