Pearson Edexcel Level 1 Certificate in Essential Skills – Application of Number (Northern Ireland)

Sample Assessment Material – Question Paper

September 2016

Edexcel, BTEC and LCCI qualifications

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Surname	Other names
Centre Number	Candidate Number

Pearson Edexcel Level 1 Certificate in Essential Skills – Application of Number

Sample Assessment Material	Paper Reference
Time: 1 hour 30 minutes	

You must have: Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, a pair of compasses.	Total Marks **45**

Signature:_____

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** the questions.
- Answer the questions in the spaces provided
  – *there may be more space than you need*.
- **Calculators may be used.**

Information

- The total mark for this paper is 45.
- The marks for each question are shown in brackets
  – *use this as a guide to how much time to spend on each question.*
- **You must show clearly how you get your answers because marks will be awarded for your working out.**

• **Check your working and your answers at each stage.**

•**This sign shows where marks will be awarded for showing your check.**

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.

Section A: New bathroom

Answer all questions in this section.

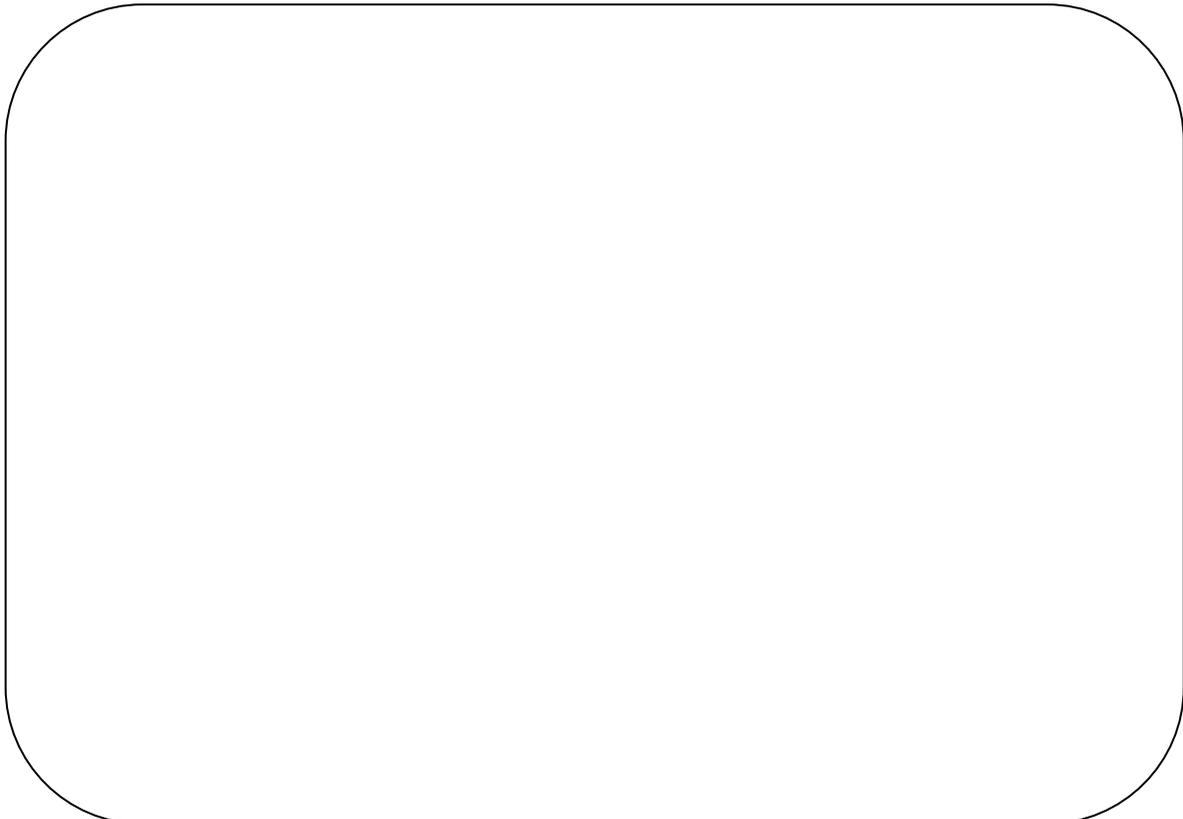**Write your answers in the spaces provided.**

1 Sophie wants a new bathroom.

She wants to buy a new basin, a bath and a toilet.
Sophie finds these prices for a basin, a bath and a toilet.

	Price
Basin	£94.92
Bath	£399.48
Toilet	£189.00

She would also like to buy a shower fitting for £58

Sophie has a budget of £750

Use the box below to show your working and your answer.

Show your check in the box below.

(Total for Question 1 is 4 marks)

2   Sophie wants to put tiles on a wall in her bathroom.

The wall is rectangular 3 m wide and 2.4 m high.

The tiles Sophie likes are square 60 cm by 60 cm.

Use the box below to show your working and your answer.

Sophie wants to buy tiles for her bathroom floor.

The tiles cost £75.50 plus VAT at 20%.

(b)   What is 20% of £75.50?

(2)

Use the box below to show your working and your answer.

(Total for Question 2 is 7 marks)

3   Sophie needs to work out where to put the toilet and the basin in her bathroom.

The toilet must be in a corner of the bathroom.
It needs a rectangular floor space 50 cm by 125 cm.

The basin must be against a wall.
It needs a square floor space with sides of 75 cm.

Sophie draws a plan of the bathroom on a grid.
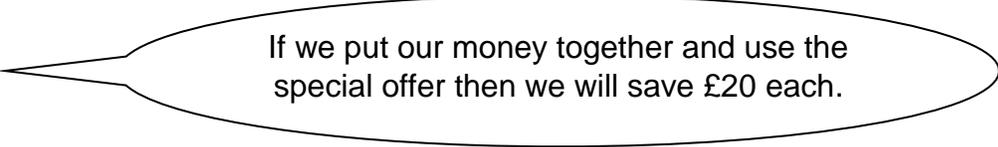
Section B: Cycling holiday

Answer all questions in this section.

Write your answers in the spaces provided.

4   Dan and Matt plan to go on a cycling holiday in France.

They decide to stay at camping sites on their holiday.

Dan and Matt each need to buy a new sleeping bag.
They find this advert for a sleeping bag they both like.

Matt says

If we put our money together and use the
special offer then we will save £20 each.

Use the box below to show your working and your answer.

(Total for Question 4 is 3 marks)

5   Dan cycles every week to prepare for his holiday.

He records the total distance, in kilometres, he cycles each week.

	Week 1	Week 2	Week 3	Week 4	Week 5
Distance (km)	180	254	288	272	264

Dan thinks he has cycled a mean distance of 250 km a week.

Is Dan correct?
Show why you think this

Use the box below to show your working and your answer.

Write your answer in the box below.

Dan wants to display his progress in a graph.

He needs to show total distances he cycled each week over the 5 weeks.

The number of kilometres I cycled increased.

The number of kilometres I cycled decreased.

The number of kilometres I cycled increased then decreased.

The number of kilometres I cycled decreased then increased.

(Total for Question 5 is 8 marks)

6   Dan needs to buy a new cycle helmet in France.

He sees one he likes for 48 euros.

Dan uses this rule to change between euros (€) and pounds (£).

He knows the same make of helmet costs £40 in Northern Ireland.

Dan thinks the price in France is the same as the price in Northern Ireland.

Use the box below to show your working and your answer.

Show your check in the box below.

(Total for Question 6 is 4 marks)

Section C: The garage

Answer all questions in this section.

Write your answers in the spaces provided.

7   James owns a garage.
He employs three car mechanics.

James has to make some bookings for customers on Monday.

- Mr Kelly, service, 3 hours

- Pat Best, tyre and brake change, 3 hours 30 minutes

- Ms Donnelly, MOT, 1 hour after 10 am

- Grace Finnegan, repair, 2 hours.

There are already some bookings in the diary.
James has to write the name of the customer and the job in the diary.

Write the bookings in the diary on the next page.

Monday	Name of car mechanic		
Time	Emma	Tom	Jack
8.30 – 9.00	Mr Walsh Service		
9.00 – 9.30	Mr Walsh Service		
9.30 – 10.00	Mr Walsh Service	Ms McLaughlin Service	
10.00 – 10.30	Mr Walsh Service	Ms McLaughlin Service	
10.30 – 11.00	Mr Walsh Service	Ms McLaughlin Service	
11.00 – 11.30	Mr Walsh Service	Ms McLaughlin Service	
11.30 – 12.00	**Break**	Ms McLaughlin Service	
12.00 – 12.30		Ms McLaughlin Service	**Break**
12.30 – 1.00		**Break**	
1.00 – 1.30			
1.30 – 2.00			Kev Dunne MOT + service
2.00 – 2.30		Chris Clarke MOT	Kev Dunne MOT + service
2.30 – 3.00		Chris Clarke MOT	Kev Dunne MOT + service
3.00 – 3.30			Kev Dunne MOT + service
3.30 – 4.00			Kev Dunne MOT + service
4.00 – 4.30			Kev Dunne MOT + service
4.30 – 5.00			Kev Dunne MOT + service

(Total for Question 7 is 4 marks)

8   The garage has a special offer on the cost of a car service.

James needs to complete the bill for Mr Walsh.

Write the missing amounts in the bill below.

Description	Amount
Car service	£217.50
Discount of $\frac{1}{3}$	_ _ _ _ _ _ _ _ _ _
Total	_ _ _ _ _ _ _ _ _

Use the box below to show your working and your answers.

Show your check in the box below.

9   A customer brings an old motorbike to the garage for a service.
     Emma knows the motorbike needs a petrol to oil mix in the ratio 50:1

     She uses 300ml of oil.

Use the box below to show your working and your answer.

(Total for Question 9 is 3 marks)

10 The garage is in Omagh.

On Friday James needs to

- collect some spare tyres in Mountfield
- collect parts in Dromore.
- visit a taxi company in Ballygawley

James needs to start and finish in Omagh.
He wants to take the shortest route possible.

Omagh

Use the box below to show your working and your answer.

(Total for Question 10 is 4 marks)

TOTAL FOR PAPER IS 45 MARKS