nocn
CREATING OPPORTUNITIES

Functional Skills Maths Assessment
Level 1

Paper B Planning a Journey

Learner Name: _____

NOCN USE ONLY	
T1	
T2	
T3	
Total	

Learner Signature: _____

Centre: _____

Assessment Date: _____

You may use a calculator.

You will need a pen and a ruler.

There are 3 tasks in this assessment.

You must complete all 3 tasks.

Total marks available: 69

You should try to answer ALL the questions

You have **one and a half hours** to finish the assessment

Task 1 Travelling by train

Wendy wants to travel from Stockport to Eastbourne to visit a friend.

She wants to travel on Friday 26th June, returning on **the following Friday**.

She also wants to arrive in Eastbourne **no later than 3pm** and to arrive back in Stockport **no later than 7.30pm**.
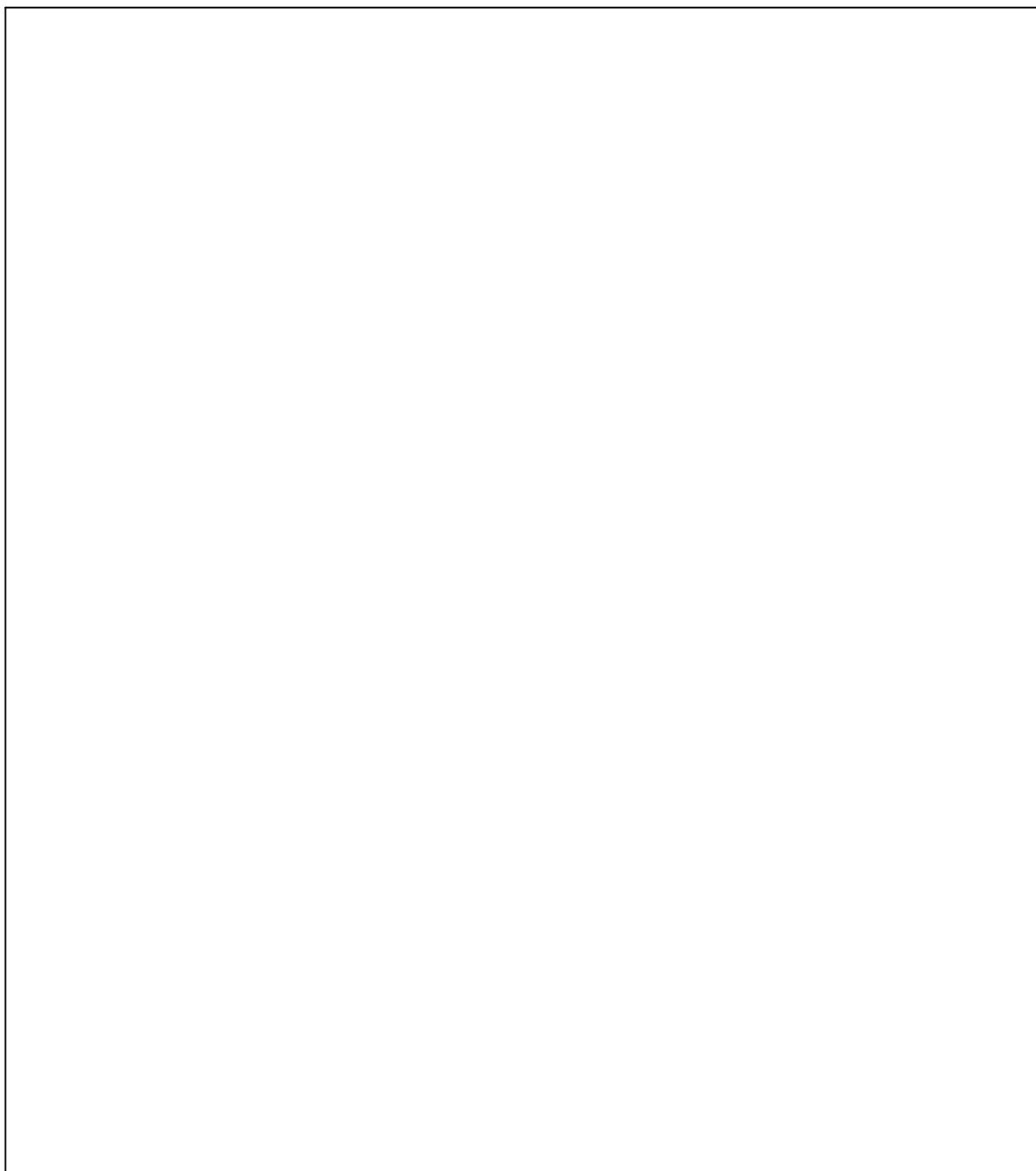
She looks at the journey by train first.

The table shows the journey times when travelling by train.

TRAIN TIMES

Outward journey: Friday 26 June 2010			
Depart Stockport	**10:04**	**10:23**	**10:42**
Arrive Eastbourne	**14:15**	**14:44**	**15:04**
Journey length	4 hrs 11 mins	4 hrs 21 mins	4 hrs 22 mins
Return journey: Friday 2010			
Depart Eastbourne	**14:31**	**15:00**	**15:31**
Arrive Stockport	**18:37**	**19:18**	**19:36**

1.   What date does Wendy travel back on?   (2)

_____

2.   If Wendy catches the 14:31 **from** Eastbourne, is this longer or shorter than the mean journey **to** Eastbourne? Show all your working.   (8)

3. Which train times are Wendy's best option based on the information in Question 1?

Explain why you have chosen these train times.

Remember to check the times she wants to travel. (4)

Outward journey: departure time _____

Reason _____

Return journey: departure time _____

Reason _____

These are the ticket prices. Wendy can buy an advance single ticket for **any** journey. Off-peak return tickets may only be bought for journeys **departing between 10.15am and 4.00pm**.

Tickets /Prices	
	£37.50
Advance single	
	£86.10
Off-peak return	

4. Wendy wants to work out the cheapest ticket options for both the train journeys chosen in **Question 3**. She is a student and so may have an extra **1/3 discount** off the price of every ticket.

Task
Work out which tickets she should buy and state **why** she should choose these. How much discount will she get on the tickets? (5)

Functional Skills Mathematics
Level 1 Paper B (SAMPLE PAPER)
Planning a Journey
Assessment Task Sheet

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Task 2 Travelling by coach

Wendy decides to look at coach travel for her journey.
Here is the timetable for the coach journey from Stockport to Eastbourne.

Departing Friday 26th June 2010		From: Stockport
		To: Eastbourne
Departs	Arrives	duration
06:30	17:45	11 hours 15 minutes 205 minutes wait in London
11:10	21:10	10 hours 85 minutes wait in London

Task 5:
Wendy wants to work out how long she will actually be on the coach for both journeys.

Use the information to work out which journey would have less coach travel. Show your working. (9)

Check your answer. (2)

Coach Ticket Prices	
Student single ticket Stockport to Eastbourne	£30
Student return ticket Stockport to Eastbourne	£42

Task 6: **Use your answer to Question 4 and the information above**.

Which is the cheapest method of transport for Wendy?
Circle **TRAIN / COACH**   (1)

By how much is it cheaper?
Show your working.   (2)

7. Write down a sentence about the difference in journey times between coach and train travel from Stockport to Eastbourne.
Show some working out to back up your statement.   (3)
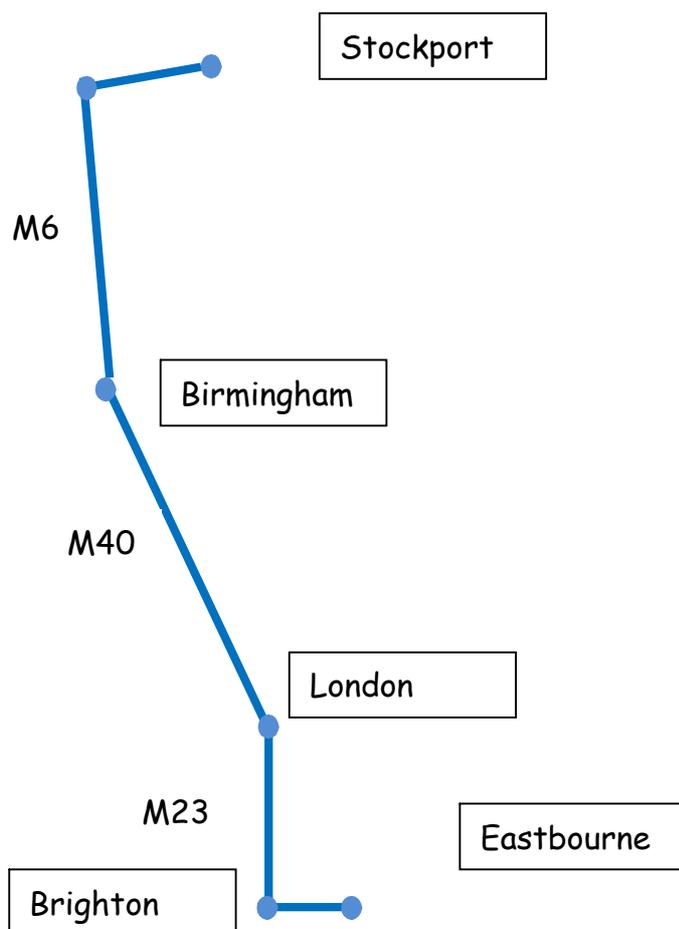
_____
_____
_____

8a) She estimates the coach will travel at an average speed of **50mph** for **8 hours**. She uses two ways of estimating the distance from Stockport to Eastbourne. Decide which gives the better estimate and explain your answer. Show all your working out. (9)

Method A She can use this formula to estimate the distance from Stockport to Eastbourne.

Distance = speed x time

Method B She can use the map below to work out a different estimation for the distance by road from Stockport to Eastbourne.

Scale: 1cm represents 20 miles

Working out:

The better method is _____ because
_____.

b) The coach stops **roughly** ⅔ of the way down the M40 motorway at a service station.

Mark with **X** on the map where the coach may stop on the M40.   (2)

Task 3 Preparing for the journey

9. Wendy decides to take her own snacks.
She will eat twice as many sandwiches for one meal than for the other.
She makes **12 sandwiches** in total.

She likes three types of sandwich – jam, cheese and egg. She likes egg sandwiches best but makes equal amounts of cheese and jam sandwiches.
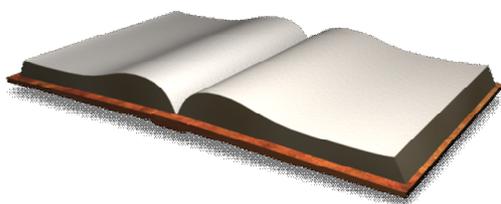
She packs the sandwiches into two boxes. Label the boxes to show how many of each type of sandwich are in each box.

Both boxes must have each type of sandwich.   (5)

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Sandwich Box 1
Contents:




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Sandwich Box 2
Contents:




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10. Wendy knows she can carry no more than 5 kilograms. She weighs her case which is full. Use the information to decide which item(s) to take out. Explain your choices and show all working. (6)

Check your answer. (1)

2 books each weighing 300g

2 pairs of trainers 400g each pair

Hair dryer weighing 350g

11. Wendy has to pack some presents for her friend at the bottom of her case. Her case, laid down, measures 0.35m wide and 0.5m long.
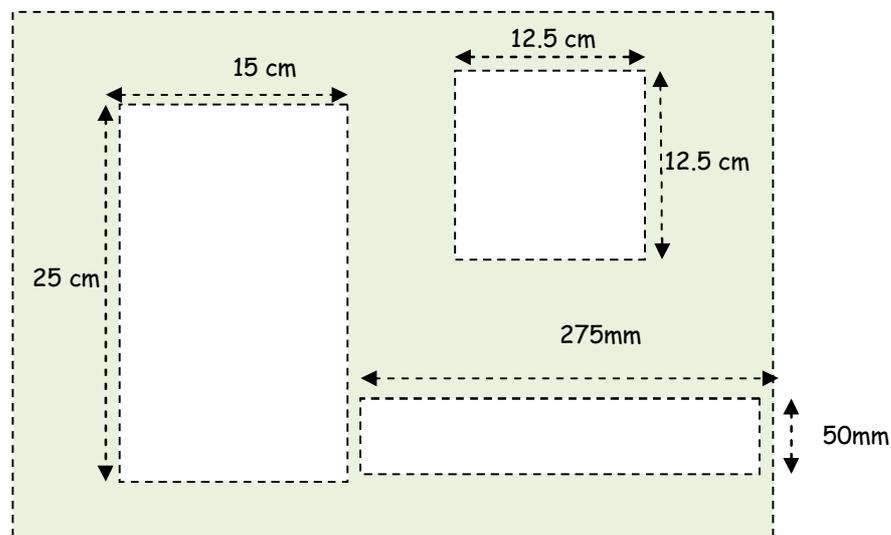
Task:
What is the area left at the bottom of the case when she has packed all the presents? Show your working. (7)

Check your answer. (1)

Could she fit another present which measures 15cm by 35 cm into the case? Explain your answer. (2)

Base of case and presents (drawn to scale 1:5)

Show your working

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