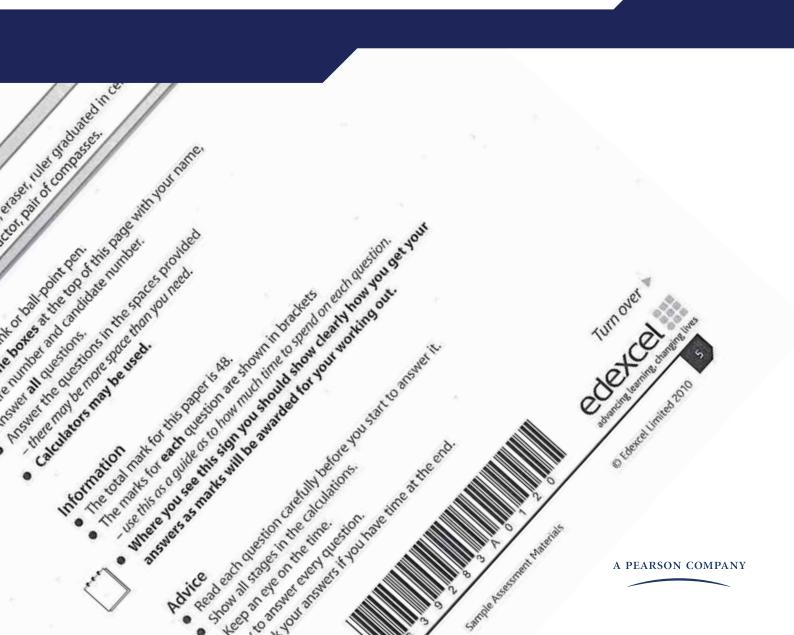


Sample Assessment Material

with example answers and examiner marks

These marked sample sssessement papers are to aid in teaching and learning and should be used as a guide only.



Surname	Other	names
Edexcel Functional Skills	Centre Number	Candidate Number
Mathematic Level 1	CS	
Sample Assessment Materi	ial	Paper Reference

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 questions.
- Answer the questions in the spaces provided

 there may be more space than you need.
- Calculators may be used.

Information

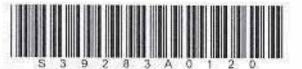
- The total mark for this paper is 48.
- The marks for each question are shown in brackets

 use this as a guide as to how much time to spend on each question.
- Where you see this sign you should show clearly how you get your answers as marks will be awarded for your working out.

Advice

- Read each question carefully before you start to answer it.
- Show all stages in the calculations.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.





Turn over 🕨



Edexcel Functional Skills Qualification in . Mathematics at Levels 1 and 2

Sample Assessment Materials



SECTION A: Mid-shir	e Council
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Answer all questions in this section.

Write your answers in the spaces provided.

1 Mid-shire Council is planning a charity meal. The meal will have a first course, a second course and a third course. People will choose what they want for each course.

First course: Soup or Salad.

Second course: Curry or Pasta Bake.

Third course: Cake or Ice cream.

The waiting staff need a data collection sheet to record the meal choices of each person. A record of the meal choices is needed for each table. There will be 5 people sitting at each table,

Design a data collection sheet to record the meal choices for one table.

3 carries

Person	First	Course	Second	Course	Third	Louis
Personl	Soup	Solad				yennon
Person 2				/	1	
Errion 3		-	/			
reason 4		/				
Perion 5	17	K .				-
Total		11 11			1	
6	h	11.	1	1 1	1	1
20	10	V V		0	11	M
Person	1st Cou	irse	2nd c	owne	3.4	teourie
					fate YIN	Ice creamy
Person 1			4			
Cerson 2						
ieran 3		/				
Person 4	/				1	
Person 5	1				1.4	
total			9	- Contraction of the second		
						and a set of the set o

Sample Assessment Materials

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(3)

Use the box below to show clearly your data collection sheet. Ist course. 2nd course 3rd Gurk Soup YINSalad YIN Curry Y/N Cale YIN Cale YIN Cole YIN Corrent YIN Person Person 1 Person Z Person 3 Person 4 Person 5 Total All features present 3 63 1 (Total for Question 1 = 3 marks)

Sample Assessment Materials

1 2 A man has complained to Mid-shire Council. 120 He thinks that his neighbour's hedge is too high. If the hedge is too high, the council can order the neighbour to cut the hedge. House 4 m. To find the height allowed for a hedge, the council uses the rule below. Distance (in metres) between the house and Divide by 2 Add I metre the hedge. The distance between the house and the hedge is 4 m. (a) What is the height allowed for the hedge? (2) Use the box below to show your calculations. 4m = 2 = 2m2m + 1m = 3mThe height of the hedge is 3.5 m. (b) Should the council order the neighbour to cut the hedge? (1) Use the box below to explain your answer. Merchecause the hedge should be 3 metres tall is 3.5 metres tall .

Lucy wants to plant a hedge in her garden. She draws a plan of her garden on a centimetre squared grid. H e d House Pond ø Key: 1 cm on the plan = 1 m in the garden The hedge will be 1 m wide and 8 m long. The hedge will be in the shape of a rectangle. The hedge will run parallel to the house at the bottom of the garden. (2)(c) Show the hedge on Lucy's plan. Lucy wants to know the height allowed for her hedge. (d) What is the height allowed for Lucy's hedge? (2)Use the box below to show your calculations. 11cm 11m=2=5.5m 5.5m+1=6.5m - correct use of 11m (Total for Question 2 = 7 marks)

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3 Mid-shire Council spreads grit on the roads when the temperature is low. The council want to predict how much grit they will need.

The table below shows the predicted number of days at different temperatures for next winter.

Temperature (°C)Number of daysAbove 0°C440 to -54-6 or below19

Mid-shire Council spreads grit on the roads when the temperature is 0°C or less.

(a) How many days will the council spread grit on the roads?

19+4=23

The council uses a mixture of salt and sand to make the grit.

The mixture is 1 part salt to 4 parts sand.

The council needs 250 tonnes of mixture each day when the temperature is low.

(b) How much salt and how much sand are used to make 250 tonnes of this 200 tonnes of sund and SO tonnes of salt(2) mixture?

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

1:4 1+4=5 SX50=250 Tonneso 1×5=5 1×50=50 4×5 4×50=200 50 LOWPE 200+50,=250

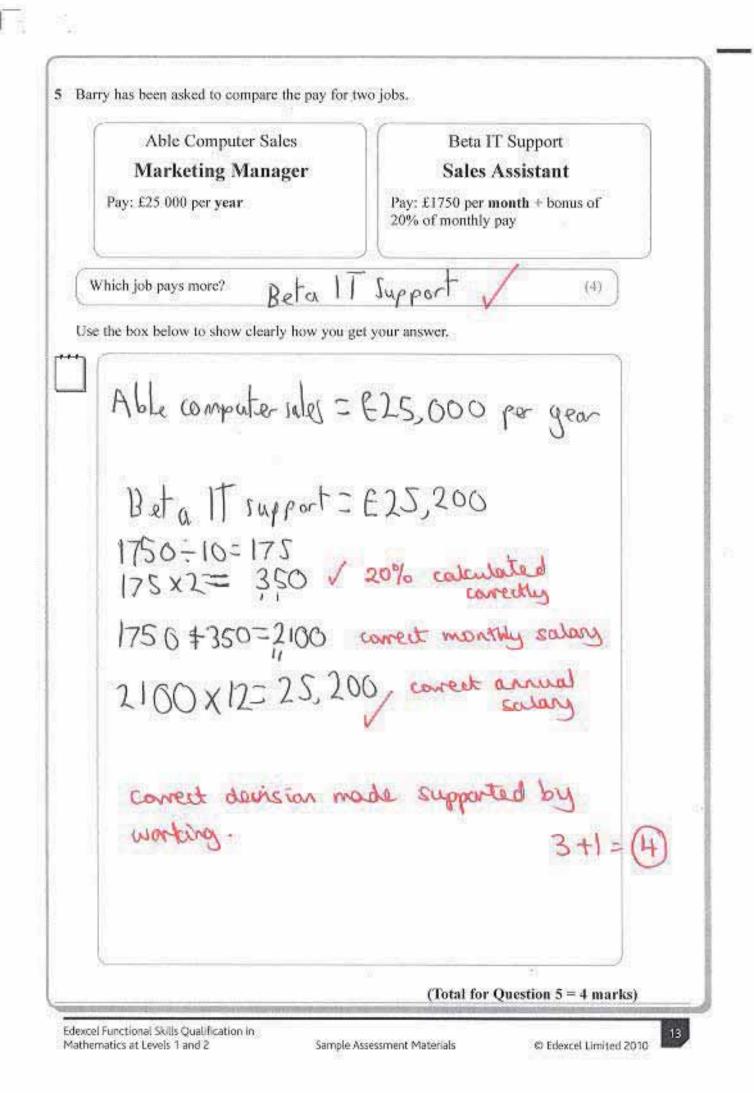
(1)

The council needs 250 tonnes of mixture for each day that grit is spread on the roads. The council must estimate the cost of the grit needed for next winter. Salt costs £71.95 per tonne. Sand costs £12.21 per tonne. (c) Calculate an estimate for the cost of grit needed for next winter for Mid-shire E138, 908.50 Council. 131 Use the box below to show how you get your answer. 200:50 50:200 50= 63,597.50 671.95×200=(14,390, V E 12, 2 X 200=E2, 442 *E12.21+E2,4 E3,597.50+E1,442=E6,039.50 E6,039.50 por day EG, 039. 50×28=E138,908.50. fully correct answer with all calculations present (Total for Question 3 = 6 marks) Edexcel Functional Skills Qualification in

Mathematics at Levels 1 and 2

Sample Assessment Materials

SECTION B: Jobs Answer all questions in this section. Write your answers in the spaces provided. 4 Barry interviews people for jobs. He can interview up to 10 people each day. A computer company wants Barry to interview 62 people. (a) What is the least number of days that Barry will need for these interviews? (2)Use the box below to show efearly how you get your answer. day = his is taken to be the candidate's final answer, it should have been 7. is sharm clearly he method (b) Show how you can check your answer in the box below. (1)10×7=70 70=1077 (Total for Question 4 = 3 marks) Edexcel Functional Skills Qualification in Sample Assessment Materials Mathematics at Levels 1 and 2 © Edexcel Limited 2010



6 Barry helps people plan which days they work. He helps Jeba plan her work for three weeks.

Jeba works for two companies, Compulike (C) and Easytype (E).

Jeba is paid £550 for four days work at Compulike.

She is paid £110 for each day of work at Easytype.

(a) Which company pays Jeba more for her time?

Use the box below to explain your answer.

& (omp C=SSO po-4 days E=440 per4 days 110×4=440

Barry has a choice of two plans for Jeba. The plans are shown below.

ŋ			

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1		C	E	С	E
Week 2			C	E	
Week 3	C			E	

Compulike

(1)

Plan 2

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1		Е		С	Е
Week 2	С		С	E	E
Week 3		С	E		



Jeba wants to earn as much money as she can.

(b) Which plan should Jeba choose? Explain your choice. Calculate her total pay for this plan. (3)

Use the box below to show your answer and calculations.

lan L Plan 4×C=550 she could go to should choose plan 2 because the epinsello more than on 3) plan correct calculations seen and correct decision stated (Total for Question 6 = 4 marks)

7 Maria is interviewed for a job. She hands in this claim form. Claim form Complete all totals. Reason for claim: Details: Total: Train fare: Return ticket £ 121.50 £ 8.10 V 30 miles at 27p per mile Car travel: £4.80 Travel refreshments: £ 8.20V £3.40 Total claim £ 137-80, (a) Complete the claim form for Maria. (3)Use the box below to show any calculations. 27pX 30=810p = E8.10 480+3.40=820 3 121.50 8.10 8.10 3 Fully correct. .80

This claim form is out of date. Car travel is now 29p per mile. 60p V (b) How much extra should Maria claim for car travel? (2) Use the box below to show how you get your answer. 29px30=870=68.70 27px30=810=68.10 8.70 rewritten with write show (Total for Question 7 = 5 marks) 3. (B)

SECTION C: Jan

Answer all questions in this section.

Write your answers in the spaces provided.

8 A theme park has shows and rides.

The table below gives the start time and the length of show for four shows.

show		start tim	es (pm)		length of show (mins)
High Summer *		1.15 x	3.00	_	45
Timmy Boo№ →	12.00 X	2.4	S	4.15	20
The Sea Lion Show+	12.15	1.30*	3.00	4.40	35
Warrior Show 🗙		1.30	3.00	2012	35

Jan wants to take her nephew to see all four shows.

She wants to see each show from start to finish. She wants to leave the theme park by 5pm.

3.05

Show how Jan and her nephew can see all four shows.

1:15+45-2.00

2.00

18

(4)

D

Use the box below to show your answer,

(Total for Question 8 = 4 marks)

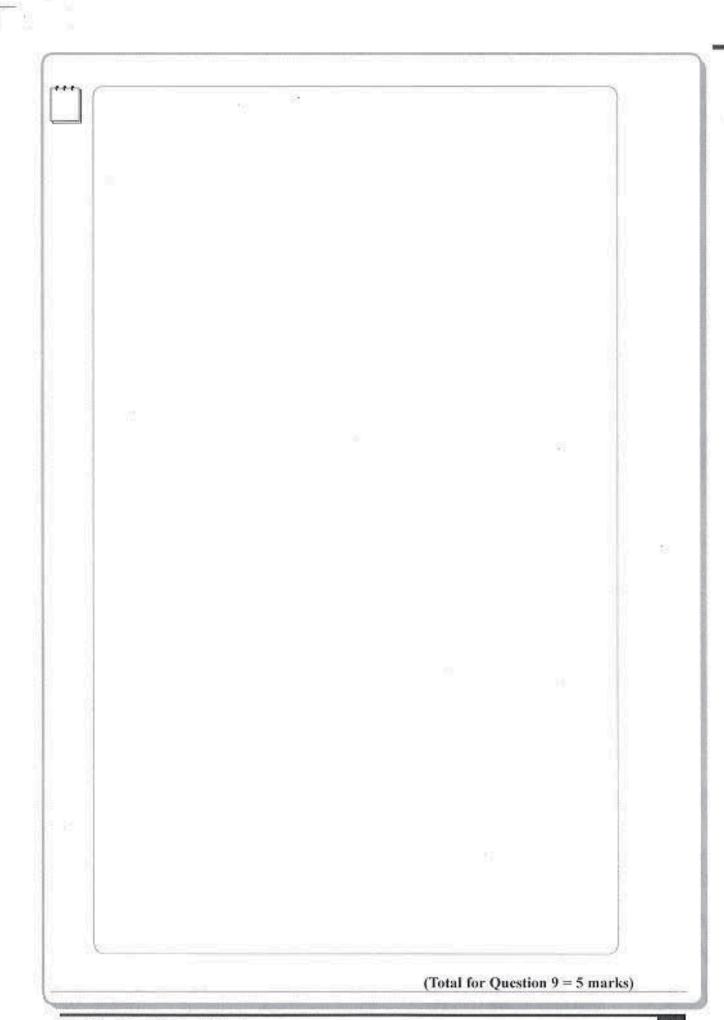
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Sample Assessment Materials

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9 Jan wants to choose a digital TV package. Jan's three options are shown below. Package One-off joining fee Monthly cost Ŧ £30.00 £24.99 £15.00 per month for the 2 £15.00 first 3 months then £29.35 each month 3 None £36.00 Compare the cost of the three TV packages for one year. Which package is best for Jan? Package 2 Use the box below to show your calculations and comparisons. 30 299.88 曲 +- $P_1 = 2030 + (24.99 \times 12) = 6329.88$ $P_2 = 15 + (15 + \times 3) + (29.35 \times 9) = E324.15$ P3 = 36× 12=1432 24.99×17 = 299-88 13×3=41 29.35 ×9=264.15 PI= 30+298.88=329.88 PZ= 15+45+264 15=324.15 . correct calculations and cost of pactages given · comect package chosen.



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10 Jan wants to reduce her water bill. She fills in this chart for one week.

	Tally	1 1
shower	1111	
toilet		
washing machine	111	1

Jan finds the following information on a website.

	Litres used
shower (per shower)	30
toilet flush (per flush)	10
washing machine (per use)	100

Jan uses 40 litres of water per day for other things, such as cooking, washing up, drinking, and cleaning her teeth.

1230L (a) How much water does Jan use in one week? (3)

Use the box below to show how you get your answer.

Shower = $30\times6 - 180$ To: let = $10\times375370L$ Washing machine = $100\times42400L$ $40\times7 - 280L$ SS = 100 12300 1230 1200 1000 1000 1000

22

Key: #1 = 5

Jan wants to know if her water bill would be cheaper if she had a water meter. She assumes she uses the same amount of water each week. Jan finds out some information about water charges. With water meter: Fixed charge per year £22 plus £1.10 for every 1000 litres of water used. Without water meter: Fixed charge of £120 per year (b) Would Jan's water bill be cheaper if she had a water meter? Use the space below to show how you get your answer. 69.3 Water meter= 22+ (1.10XMY)=2 None = 120 Norte Y=X 63 1000x of utres (Peoult of b 1230x52= 63,960 - Litres used por (Total for Question 10 = 7 marks) TOTAL FOR PAPER = 48 MARKS 23

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