

Pearson Edexcel Level 1 Award in Fractions, Decimals and Percentages (QCF) Sample Assessment Materials (SAMs)

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Introduction

Sample assessment materials (SAMs) provide learners and centres with specimen questions and mark schemes. These are used as the benchmark to develop the external assessment learners will take.

Fractions, Decimals and Percentages

The SAM for this unit has been provided for the following qualification:

- Pearson Edexcel Level 1 Award in Fractions, Decimals and Percentages (QCF).

Fractions, Decimals and Percentages – Sample assessment test and mark scheme

This sample assessment test and mark scheme is for the following qualification:

- Pearson Edexcel Level 1 Award in Fractions, Decimals and Percentages (QCF).

Pearson Edexcel

Award in Fractions, Decimals and Percentages (QCF) Level 1

Sample Assessment Material
Time: 1 hour

Paper Reference
XXX/XX

Resources: None

Total marks:
30

Center Name:

Centre Number:

Candidate's Name:

Registration Number:

Instructions

- A calculator must **not** be used in the test paper.
- You **must** show your working to gain full marks.
- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and registration number.
- Answer all questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 30.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*
- Some questions must be answered with a tick in a box (✓). The required number of boxes must be ticked.
—
If you change your mind about an answer, put a line through the box ([✓□]) and then mark your new answer with a tick [✓].

Advice

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

Turn over ►

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PEARSON

Question 1

(a) Express $\frac{11}{3}$ in its simplest form.

(1)

Answer:

(b) Express 4 as a fraction of 20 in its simplest form.

(1)

Answer:

(Total for Question 1 = 2 marks)

Question 2

(a) What is the value of the digit 3 in the number 5.237?

Put a tick (✓) under the correct answer

(1)

A	B	C	D
$\frac{3}{10}$	$\frac{3}{100}$	$\frac{3}{1000}$	$\frac{3}{10000}$

(b) Round 5.237 to two decimal places.

Answer:

(1)

(c) Work out 5.237×100 .

Answer:

(1)

(Total for Question 2 = 3 marks)

Question 3

Which **two** of the following fractions are equivalent to $\frac{2}{3}$?

Put a tick (✓) under the correct answer

A	B	C	D	E
$\frac{4}{5}$	$\frac{4}{6}$	$\frac{12}{15}$	$\frac{6}{8}$	$\frac{8}{12}$

(2)

(Total for Question 3 = 2 marks)

Question 4

(a) Express $\frac{23}{100}$ as a decimal.

Answer:

(1)

(b) Express 22.4 to the nearest whole number.

Answer:

(1)

(c) Express $\frac{4}{25}$ as a percentage.

Answer:

(1)

(d) Calculate $1\frac{1}{4}$, $\frac{6}{5}$ and $\frac{4}{3}$ in order of size from the smallest to the largest.

(2)

You must show your working here:

Answer:

(Total for Question 4 = 5 marks)

Question 5

Write 21.321, 21.123 and 21.312 in order of size, from the smallest to the largest.

Answer:

(2)

(Total for Question 5 = 2 marks)

Question 6

Calculate 27%, 0.22 and $\frac{1}{4}$ in order of size, from the smallest to the largest.

(3)

Show your working here:

Answer:

(Total for Question 6 = 3 marks)

Question 7

Work out 5% of 40.

(2)

You must show your working here:

Answer:

(Total for Question 7 = 2 marks)

Question 8

Betty gets a taxi to the train station.

The total cost of the taxi fare is £17.10.

Betty pays the fare with a £20 note.

How much change should she get from a £20 note?

(2)

You must show your working here:

Answer: £

(Total for Question 8 = 2 marks)

Question 9

Three friends order a pizza.

The pizza costs £13.50.

The three friends share the cost of the pizza equally.

How much should each friend pay?

(2)

You must show your working here:

Answer: £

(Total for Question 9 = 2 marks)

Question 10

Claire wants to buy a smartphone.
She sees this offer in a phone shop.
Work out the sale price of the
smartphone.

SMARTPHONE

Normal price £300

Sale price 20% off.



© James Whitaker/Getty

(3)

You must show your working here:

Answer: £

(Total for Question 10 = 3 marks)

Question 11

Eddie fills up his car petrol tank before he travels to a meeting.

When he arrives back home from the meeting his petrol tank is $\frac{2}{3}$ full.

Eddie knows the car petrol tank holds 36 litres.

How many litres of petrol has Eddie got left?

(4)

You must show your working here:

Answer:

litres

(Total for Question 11 = 4 marks)

TOTAL FOR PAPER = 30 MARKS

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General Marking Guidance

- All candidates must receive the same treatment. Assessors must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Assessors should mark according to the mark scheme.
- All marks on the mark scheme should be used appropriately.
- All marks on the mark scheme are designed to be awarded. Assessors should always award full marks if deserved, i.e. if the answer matches the mark scheme. Assessors should also be prepared to award zero marks if a candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When assessors are in doubt about applying the mark scheme to a candidate's response, the centre's internal verifier must be consulted.
- Crossed-out work should be marked UNLESS the candidate has replaced it with an alternative response.
- Answers that require a tick must have the required number of boxes ticked. No marks awarded if more than required number of boxes are ticked.
- Learners must show their working out where indicated

Question	Reference	Answer	Notes	Total marks
1a	1.2	$3\frac{2}{3}$	1 mark correct answer only	1
1b	1.3	$\frac{1}{5}$	1 mark correct answer only	1
2a	2.1	B or $\frac{3}{100}$	1 mark correct answer only (No marks awarded if more than required number of boxes are ticked).	1
2b	2.2	5.24	1 mark correct answer only	1
2c	2.3	523.7	1 mark correct answer only	1
3	1.1	$\frac{4}{6}$ or B $\frac{8}{12}$ and or D	1 mark for each correct answer. Maximum of 2 marks. (No marks awarded if more than required number of boxes are ticked).	2
4a	3.1	0.23	1 mark correct answer only	1
4b	2.2	22	1 mark correct answer only	1
4c	3.1	16%	1 mark correct answer only	1
4d	1.2	$\frac{6}{5}$, $1\frac{1}{4}$, $1\frac{1}{3}$	1 mark for one of $\frac{5}{4}$, $1\frac{1}{5}$ or $1\frac{1}{3}$ 1 mark for correct order	2
5	2.1	21.123, 21.312, 21.321	1 mark for 21.123 in first position OR 21.321 in last position. 1 mark for correct order. Maximum of 2 marks.	2
6	3.2	0.22 , $\frac{1}{4}$, 27%	1 mark for one of 0.27 , $\frac{27}{100}$, 22%, $\frac{22}{100}$, 25% or 0.25 seen 1 mark for 22% and 25% OR 0.27 and 0.25 OR $\frac{27}{100}$ and $\frac{22}{100}$ and $\frac{25}{100}$ 1 mark for correct order. OR 3 marks for correct order. Maximum of 3 marks.	3
7	3.3	$40 \div 100 \times 5 (=2)$ 2	1 mark for any valid first step to work out 5% of 40 e.g. $10\% = 4$ 1 mark for correct answer	2
8	2.3	$20 - 17.1(0)$ 2.90	1 mark for correct method seen e.g. $\pounds 17.10 + 90p + \pounds 2$ 1 mark for correct answer Note: must have 2.90	2
9	2.3	$13.5 \div 3$ 4.50	1 mark for correct method 1 mark for correct answer Note: must have 4.50	2

Question	Reference	Answer	Notes	Total marks
10	3.3	$300 \div 100 (=3)$ $3 \times 20 = 60$ $300 - 60 = 240$ Or $100 - 20 = 80$ $80/100 \times 300 = 240$	1 mark for any valid first step to find 20% or 80% e.g. $10\% = 30$ 1 mark for 60 1 mark for 240	3
11	1.3	$36 \div 3 (=12)$ 12 $36 - 12$ 24	1 mark for any valid first step to find $\frac{2}{3}$ e.g. 36×2 1 mark for 12 1 mark for $36 - '12'$ follow through their answer 1 mark for correct answer 24	4
			Total Marks	30

SAM Mark Scheme Coverage of Learning Outcomes

Question number	L01	L02	L03	Total
1a	1			
1b	1			
2a		1		
2b		1		
2c		1		
3	2			
4a			1	
4b		1		
4c			1	
4d	2			
5		2		
6			3	
7			2	
8		2		
9		2		
10			3	
11	4			
Total marks available	10	10	10	30
Pass Mark	7	7	7	21

Candidates must achieve the pass mark for each learning outcome achieved plus minimum total of 21 out of 30 to achieve unit.

Learning Outcome and Unit Achievement Record

Center Name:

Centre Number:

Candidate's Name:

Registration Number:

Assessor Name:

Signature:

Date Test Taken:

Question number	LO1	LO2	LO3	Total
1a				
1b				
2a				
2b				
2c				
3				
4a				
4b				
4c				
4d				
5				
6				
7				
8				
9				
10				
11				
Total marks required to pass LO	7	7	7	21
Candidate marks total				
Pass Y/N?				

Candidates must achieve the pass mark for each learning outcome achieved plus minimum total of 21 out of 30 to achieve unit.

DECLARATION

I confirm that the assessment was conducted properly and fairly and that the marks awarded are an accurate reflection of the performance of the candidate.

Assessor Signature

If this candidate has had any assistance during this test please state the nature of the assistance and who provided it

If there any special circumstances that may have had a negative effect on the candidate's performance in this test please give details.

If internally verified:

Internal Verifier's Name:

Signature:

Date:

LEARNING OUTCOME	MARKS AVAILABLE	ASSESSOR MARKS	IV MARKS
1	10		
2	10		
3	10		
Pass mark: minimum for each learning outcome met and a minimum total of 21 marks. Delete pass or fail as appropriate.		PASS – FAIL	PASS – FAIL

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