

Principal Examiner Feedback

Summer 2013

Edexcel Level 1 Award (ANM10)
Number and Measure
Paper 1A + 1B

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Edexcel Award in Number and Measure (ANM10)

Principal Examiner Feedback – Level 1

Introduction

This exam paper was found to be relatively straight forward and gave a good range of marks for the award of a pass. Candidates did show more working than last year in both Section A and Section B. More marks would have been earned if they had showed their intended methods and their calculations. All candidates seemed to have a ruler but occasionally there were blank responses where a protractor was needed. The candidates did not perform well in the questions involving perimeter, area and volume.

Reports on Individual Questions

Section A

Question 1

This question was generally well answered with almost all candidates able to write numbers in words and figures. Number calculations with a calculator were also well answered but candidates did not do so well in parts (d) and (e) which involved changing units with only about half the candidates being successful.

Question 2

All three parts of this question were very well answered indeed with very few candidates not gaining full marks.

Question 3

About two thirds of the candidates were able to write 25% as a fraction and about a half of the candidates were able to work out 60% of £45

Question 4

The shopping bill was well understood and well answered with more than half the candidates gaining all four marks. Two marks were awarded to those questions that forgot to cater for two bags of sweets and three bottles of water as £4.49 was a common wrong answer.

Question 5

Surprisingly only about half the candidates could draw the hands on the clock correctly and finding the difference between times was also not well answered as many candidates worked with 100 minutes in an hour.

Question 6

The negative number question using thermometers was well understood and well answered. Reading the scale was almost always correct with about half the candidates able to use the scale to find the difference between 9 and -6 .

Question 7

Almost all candidates could measure a length correctly with some forgetting the units but only about half could measure the angle correctly to within 2° .

Question 8

Excellent responses to the bar chart question with hardly any candidates failing to score at least one mark

Question 9

Only a quarter of candidates were able to score all the marks in this question with about another quarter gaining two out of the four marks available.

Question 10

Nearly all candidates could use their calculator to divide 1.32 by 0.25 but writing 5.86 to one decimal place proved too difficult for a large majority of candidates.

Question 11

This straightforward question where one had to find the cost of one pen given the cost of 7 was very poorly answered with only half the candidates giving the correct answer. Many candidates multiplied $\text{£}1.99$ by 7 rather than dividing it.

Question 12

There was an improvement in the success rate from last year on finding the volume of a cuboid but still only about half the candidates gave the correct answer. Many still just added the three dimensions.

Question 13

Utility bills are a regular feature on these papers and candidates were much more successful with finding the correct answer than the previous cohort. There was a lot of confusion with dealing with the calls and texts given in pence and the monthly charge which was given in pounds.

Question 14

Only about a third of candidates were able to find the area of the two rectangles with many working with perimeter and some choosing to multiply the length of one rectangle with a dimension from the other rectangle.

Section B

Question 1

The majority of candidates could successfully add the column of figures in part (a) but the subtraction of 15.7 from 50 caused a lot of problems with only about a quarter of candidates been successful. The modal wrong answer was the classic one of 45.7. There was a better understanding of dividing 245 by 5 with over half the candidates scoring at least one mark.

Question 2

The success rate on this negative number question was very high. It certainly helps the understanding when the negative number line is given with the question.

Question 3

This question on number bonds was well answered with the majority of candidates scoring 3 marks. The question that caused the greatest difficulty was the answer to $72 \div 8$

Question 4

Here again we had a high success rate in putting whole numbers and percentages in order. Candidates were less successful with the decimals and often got confused with the 0.04 the 0.45 and the 0.54

Question 5

Interestingly it was the subtraction of fractions that most candidates got right in this question with many candidates being unable to write a fraction in its simplest form or write $\frac{3}{4}$ as a decimal. Finding the smallest fraction in a list was very poorly done with very few candidates getting it correct.

Question 6

Candidates on this paper were aware of the various types of numbers and scored well on multiple, factor and prime numbers from a list but trying to find common factors of 24 and 36 proved too difficult for many.

Question 7

About a quarter of the candidates gained no marks in this question as they mixed up perimeter and area. A significant number did hedge their bets and put the same answer down for each part so did score 2 of the 4 marks. Well under half the candidates did gain all four marks though.

Question 8

Many candidates find using a calendar difficult however almost all candidates were able to carry the dates on to the 25th May but came unstuck when they had to move into the next month. A large number carried on and gave May at least 32 days, some wrote 30 days and only about a third of candidates gave the fully correct answer of the 3rd June.

Summary

- Dealing with sensible units and changing between units of length, weight and capacity.
- Dealing with time e.g. drawing hands on clocks, difference between two times and number of days in a month.
- Finding the smaller fraction and working out the fractions and percentages of quantities cause problems with many candidates.
- Rounding numbers to one decimal place was not well understood as was giving the answer to the nearest penny.
- Calculation of perimeters, areas and volumes of cuboids need attention with candidates still mixing up perimeter and area of a rectangle in particular.

Grade Boundaries

Grade boundaries for this, and all other papers, can be found on the website on this link:

<http://www.edexcel.com/iwantto/Pages/grade-boundaries.aspx>

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