Assessment Report

Essential Mathematics (with QuickTables) / * MAT 010: Part 1 ~ – ~ CLASS 1 (Inst. Cearlock): Natalie Rowden
12/17/2015 (8 minutes)

* Starred questions are on topics previously mastered by the student but missed on this assessment.

Question	Answer
1. (12.4) Mode of a data set	Incorrect*
2. (6.6) Introduction to properties of multiplication	Correct
3. (1.3) Multiplication by 10, 100, and 1000	Correct
4. (1.5) Prime factorization	Correct
5. (3.3) Fraction division	Correct
6. (2.3) Division of a decimal by a power of ten	Correct
7. (12.7) Outcomes and event probability	Not learned yet
8. (8.2) Graphing a line in quadrant 1	Correct
9. (12.7) Classifying likelihood	Correct
10. (3.2) Ordering fractions with the same denominator	Correct
11. (1.1) Numeral translation: Problem type 2	Correct
12. (7.3) Solving a fraction word problem using a linear equation of the form Ax = B	Correct
13. (2.3) Average of two numbers	Correct
14. (12.3) Interpreting a double bar graph	Correct
15. (12.6) Introduction to the counting principle	Correct
16. (4.2) Word problem with powers of ten	Incorrect
17. (8.2) Graphing a linear equation of the form y = mx	Correct
18. (1.6) Writing a one-step expression for a real-world situation	Correct
19. (4.5) Adding measurements in feet and inches	Correct
20. (3.7) Converting a decimal to a proper fraction in simplest form: Advanced	Correct
21. (1.3) Understanding multiplication of a one-digit number with a larger number	Correct
22. (3.2) Using a common denominator to order fractions	Correct
23. (7.2) Introduction to solving an equation with parentheses	Correct
24. (6.2) Order of operations with integers	Correct
25. (6.1) Plotting rational numbers on a number line	Correct

Question 1[*]

Mode of a data set

The following list gives the number of siblings for each of 12 students.

3, 2, 3, 0, 4, 1, 1, 1, 2, 3, 4, 2.

Find the modes of this data set.

If there is more than one mode, write them separated by commas.
If there is no mode, on "No mode."

You answered:

3,1

The correct answer is:

1,2,3

Question 7

Outcomes and event probability

A coin is tossed three times. An outcome is represented by a string of the sort HTT (meaning a head on the first toss, followed by two tails). The 8 outcomes are listed in the table below. Note that each outcome has the same probability.

For each of the three events in the table, check the outcome(s) that are contained in the event. Then, in the last column, enter the probability of the event.

		Outcomes								Probability
		HHT	HTH	THH	THT	TTH	TTT	HHH	HTT	
Events	A tail on both the first and the last tosses	☐	☐	☐	☐	☐	☐	☐	☐	
	Exactly one head	☐	☐	☐	☐	☐	☐	☐	☐	
	Two or more heads	☐	☐	☐	☐	☐	☐	☐	☐	

You did not provide any answer.

The correct answer is:

		Outcomes								Probability
		HHT	HTH	THH	THT	TTH	TTT	HHH	HTT	
Events	A tail on both the first and the last tosses	☐	☐	☐	☑	☐	☑	☐	☐	$\frac{1}{4}$
	Exactly one head	☐	☐	☐	☑	☑	☐	☐	☑	$\frac{3}{8}$
	Two or more heads	☑	☑	☑	☐	☐	☐	☑	☐	$\frac{1}{2}$

Question 16

Word problem with powers of ten

The weight of $1,000$ identical samples of a substance is 1 pound.

What is the weight of 100 samples?

You answered:

10 pound(s)

The correct answer is:

0.1 pound(s)