## Sample IBEW Apprenticeship Algebra exam

Algebra and Functions portion has 33 questions with a 46 minute time limit. Reading Comprehension has 36 questions with a 51 minute time limit. With only 33 questions there is little room for error. You need to be prepared so you can limit wrong answers.



Algebra Sample:

 Consider the following formula: A = B + 3 (4 - C) If B equals 5 and C equals 2, what is the value of A? A.7 B.11 C.12 D.17
Consider the following formula: y = 3 (x + 5) (x - 2) Which of the following formulas is equivalent to this one?

A. y=3×2+9x-30 B. y=x2+3x-IO C. y=3×2+3x-IO

, D. y=3×2+3x-30

3. Consider the following pattern of numbers: 110, 112, 107, 109, 104What is the next number in the pattern?A.97B. 99C. 106D.109

4.Consider the following formula: a = 1/2 b - 4Which of the following statements is true for this formula? A. When the value of b is less than 8, a is negative. B. When the value of b is greater than 8, a is negative.

C. When the value of b is less than 8, a is positive.

D. When the value of b is greater than 4, a is positive.

If you need to brush up on your math skills then you may want to check out Khan Academy's Algebra 1 course. This is a FREE course!

Also check with your local community college to see if Algebra courses are offered.

## Sample IBEW Apprenticeship Reading Comprehension

The reading comprehension measures your ability to retain information. It's simple to read a paragraph but to understand the context can be tricky.

Here is a sample of what you're likely to see on the exam:

The timing of New Year's Day has changed with customs and calendars. The Mayan civilization, on what is now called the Yucatan peninsula of Mexico, celebrated the New Year on one of the two days when the noonday sun is directly overhead.

In the equatorial regions of the earth, between the Tropics of Cancer and Capricorn, the sun is in this position twice a year, once on its passage southward, and once on its passage northward. At the early Mayan city of Izapa in the southern Yucatan, the overhead date for the sun on its southward passage was August 13.

The Mayans celebrated this as the date for the beginning of the New Year. Later at the more northerly Mayan site at Edzna, the corresponding overhead date is July 26. Analyses of Mayan pictorial calendars indicate that they celebrated the New Year on August 13 prior to 150 AD, and on July 26 after that year.

This change has been explained by archaeological dating showing that 150 AD was the time that the Mayans moved the hub of their civilization from the southern to the northern site.

Questions:

- 1. According to the passage, the sun at Edzna was directly overhead at noon on:
- A. July 26 only
- B. August 13 only
- C. July 26 and one other date
- D. August 13 and one other date

2. If the Mayans had moved their civilization's center south of Izapa, their new date for celebration of the New Year would probably have been closest to which of the following dates?

- A. January 1
- B. February 20
- C. March 25
- D. September 15
- 3. Based on the information in the passage, which of the following statements is true?
- A. Mayans made Edzna the capital because it was more temperate than Izapa.
- B. All Mayans moved to Edzna in 150 AD.
- C. Mayans used calendars to mark the passage of time.
- D. The Mayan city of Izapa was destroyed in 150 AD.

Answer Key:

Algebra

- 1. B
- 2. A
- 3. C
- 4. A

Reading Comprehension

- 1. C
- 2. D
- 3. C