

**Ohio Graduation Test for Mathematics – Spring 2008
Annotated Item 30**

Standard and Benchmark Assessed:

Standard: Number, Number Sense and Operations

Benchmark: E. Compare, order and determine equivalent forms of real numbers.

Multiple Choice Question:

30. Which sequence of numerals is equivalent to:

$\frac{2}{3}$, 10%, 0.8, 6?

- A. $\frac{4}{6}$, $\frac{1}{10}$, $\frac{8}{100}$, 0.06
- B. 0.67, 1.0, 8%, 6.00
- C. $66\frac{2}{3}\%$, $\frac{2}{20}$, $\frac{4}{5}$, 6.0
- D. $\frac{2}{3}$, 0.01, 80%, 6%

Commentary:

This multiple-choice question asks students to identify an equivalent sequence of numerals. Answer choice C is correct because $\frac{2}{3}$ written in percent form is $66\frac{2}{3}\%$; 10% is the fraction $\frac{10}{100}$ which is equal to $\frac{2}{20}$; 0.8 is the fraction $\frac{8}{10}$ which is equal to $\frac{4}{5}$; and the whole number 6 can be written as 6.0.

Answer choice A is incorrect because the whole number 6 is greater than 1 and does not equal the decimal number 0.06, which is less than 1.

Answer choice B is incorrect because 1.0 equals 1, not the number 10%, which can be written as 0.1. Also, 8% would equal 0.08 not eight-tenths (0.8).

Answer choice D is incorrect because 0.01 equals 1%, not 10%, and 6% equals 0.06 as a decimal number, which is less than one.

This question is classified as Low Complexity as the task requires the student to recognize equivalent representations of numbers.

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Performance Data:

The percent of public school students selecting answer choice C for question 30 on the March 2008 Ohio Graduation Test was 42%.

Keywords: percent, decimals, fractions, equivalent numbers