



Hocking College New Student Assessment

You must present picture identification when taking ASSET or COMPASS

What are ASSET and COMPASS? Why are they important?

ASSET and COMPASS are two methods of assessment in math, writing and reading that are part of Hocking's scheduling and registration process. They help to identify what classes you should schedule your first quarter. Our goal is to ensure that your classes are the right level for you -- not too easy and unchallenging and not so difficult that you feel overwhelmed. ASSET is a paper and pencil version of the assessment and each area is timed (25 minutes per section). COMPASS is a computerized version of the assessment and is untimed. Pencil and paper will be provided. Calculators may not be used during the assessment.

Who needs to complete the placement assessment?

All degree seeking students must complete assessment. If you are transferring credits from another institution, you may choose to participate in any (reading, writing, and math) or all sections of the assessment test. If you are not transferring credit in all three areas (reading, writing, and math), we recommend taking the assessment in the areas needed for Hocking College course placement. **Attention Nursing Students:** ASSET and COMPASS tests are the entrance exams required for entering the nursing program. Therefore, all nursing applicants must complete ASSET or COMPASS assessment regardless of transfer credit. Nursing applicants must achieve scores which would place them into college-level course work in order to be accepted into the clinical program.

Should I review?

Yes! Reviewing in the math area may enable you to bypass some courses and place into the highest level of courses in which you can be successful. You can save time and money. To help you prepare, math sample assessment items are included on Pages 2 and 3.

Do I need computer skills to choose COMPASS?

No! You do not need computer skills to complete this assessment. COMPASS is a very "user friendly" system. If you do need help, our staff is readily available.

When will I get my results?

After you finish the assessment, you will receive your results.

Sample Assessment Items

Assessment has three sections: reading, writing, and math. Pages 2 and 3 include sample questions from the math section (answers on Page 3). **We strongly suggest you review prior to your assessment.**

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These problems are provided to help you review for math placement at Hocking College. These are some of the topics that you will be evaluated on to determine your placement in math. We recommend that you review this information prior to taking your assessment.

A. Adding and Subtracting Fractions

To add or subtract fractions, you must have a common denominator.

For example $\frac{3}{5} + \frac{6}{7}$ the common denominator is 35.

Change each fraction to a fraction with 35 as the denominator.

This would give you $\frac{21}{35} + \frac{30}{35} = \frac{51}{35} = 1 \frac{16}{35}$

Practice problems:

1) $\frac{5}{8} + \frac{3}{9}$ 2) $\frac{2}{7} + \frac{1}{8}$ 3) $\frac{3}{8} - \frac{1}{2}$ 4) $2\frac{1}{2} + 3\frac{1}{3}$ 5) $3\frac{2}{7} - 1\frac{2}{9}$

B. Multiplying and Dividing Fractions

To multiply fractions, multiply across the numerator and multiply across the denominator.

To divide, multiply the reciprocal.

For example: $\frac{3}{7} \times \frac{2}{5} = \frac{6}{35}$ and $\frac{2}{7} \div \frac{4}{3} = \frac{2}{7} \times \frac{3}{4} = \frac{6}{28} = \frac{3}{14}$

Practice problems:

6) $\frac{2}{9} \times \frac{5}{8}$ 7) $\frac{9}{10} \times \frac{3}{8}$ 8) $\frac{8}{5} \div \frac{6}{7}$ 9) $\frac{7}{9} \div \frac{3}{5}$ 10) $\frac{3}{8} \times \frac{2}{5}$

C. Multiplying and Dividing Mixed Numbers

To multiply and divide mixed numbers, change them to improper fractions first.

Then follow the rules from Section B above.

For example: $3\frac{1}{3} \times 4\frac{2}{5}$

Change each of these to an improper fraction and then multiply: $\frac{10}{3} \times \frac{22}{5} = \frac{220}{15} = 14\frac{2}{3}$

Practice problems:

11) $2\frac{1}{8} \times 3\frac{2}{7}$ 12) $3\frac{1}{9} \times 2\frac{7}{9}$ 13) $2\frac{3}{7} \div 1\frac{2}{5}$
14) $8\frac{3}{4} \div 5\frac{3}{10}$ 15) $5 \div 1\frac{2}{7}$

D. Working with Percentages

To change a decimal number to a percent, multiply by 100%.

To change a percent to a decimal number, divide by 100.

For example: if we change 0.12 to a percent it would be 12% and if we change 134% to a decimal it would be 1.34.

Practice problems:

Change to a percent:	16) 14	17) 0.34	18) 124	19) 0.009
Change to a decimal:	20) 12%	21) 123%	22) 0.98%	23) 1.3%

Answers to practice problems:

1) $\frac{23}{24}$	2) $\frac{23}{56}$	3) $-\frac{1}{8}$	4) $5\frac{5}{6}$	5) $2\frac{4}{63}$	6) $\frac{5}{36}$
7) $\frac{27}{80}$	8) $1\frac{13}{15}$	9) $1\frac{8}{27}$	10) $\frac{3}{20}$	11) $6\frac{55}{56}$	12) $8\frac{52}{81}$
13) $1\frac{36}{49}$	14) $1\frac{69}{106}$	15) $3\frac{8}{9}$	16) 1400%	17) 34%	18) 12,400%
19) 0.9%	20) 0.12	21) 1.23	22) 0.0098	23) 0.013	