

Weeks 4 – 5 Homework

Set 1: Untimed Warmup Exercises

Do these problems with your notes. Practice and learn slowly. Skip the hard ones if your entrance score was in the lower half.

Chapter 5

(Difficulty levels are my own assessment)

| Page | # | Subject | Format | Difficulty | Topic |
|------|---|---------|--------|------------|-----------------------|
| 115 | 1 | Arith | QC | M | Primes |
| 118 | 6 | Alg | QC | M | Evaluating / solving |
| 120 | 9 | Alg | QC | E | Solving inequality |
| 122 | 1 | Alg | MC1 | E | Solve equation |
| 124 | 4 | Arith | MC1 | M | Modeling / estimating |
| 126 | 1 | Arith | MC1+ | H | Negative exponents |
| 131 | 5 | Alg | NE | M | Plugging in |

Chapter 6

(Difficulty levels are given by ETS)

| Page | # | Subject | Format | Difficulty | Topic |
|------|----|---------|--------|------------|--------------------------|
| 156 | 5 | Arith | QC | E | Integers / evaluating |
| 157 | 6 | Alg | QC | E | Slope |
| 158 | 9 | Alg | MC1 | E | Substitution |
| 160 | 1 | Alg | QC | M | Plugging in |
| 161 | 4 | Alg | QC | M | Signed number arith |
| 163 | 12 | Alg | MC1 | M | Lines / slope / midpoint |
| 164 | 14 | Alg | MC1+ | M | Signed numbers |
| 166 | 6 | Arith | QC | H | Reading / counting |
| 167 | 8 | Alg | MC1 | H | Inequality |
| 171 | 1 | Data | MC1 | M | Graph / ratio |

Chapter 7

(Difficulty levels are my own assessment)

| Page | # | Subject | Format | Difficulty | Topic |
|-------------|-------------------------------|----------------|---------------|-------------------|---------------------------------|
| 232 | 1 | Arith | NE | M | Calculations / OOO |
| 232 | 2 | Arith | NE | M | Fractions |
| 232 | 6 | Arith | NE | E | Primes |
| 232 | 8 (a, b, c, d, e, f, h, j, l) | Arith | NE | M | Powers, roots, fractions, signs |
| 233 | 13 | Arith | NE | M | Ratio with total |
| 261 | 1 | Alg | NE | M | Translating |
| 261 | 2 (a, b) | Alg | NE | M | Simplifying |
| 261 | 6 (a – c) | Alg | NE | E | Linear equations |
| 262 | 10 | Alg | NE | M | Ratio / proportion |

(Continued next page)

Set 2: Fast-pace Math Timed Set

Who?

This diagnostic will be appropriate for you if:

- The “Math total” on your entrance diagnostic was at or above 70%, and / or
- You scored better on your medium-paced diagnostic than the slow-paced diagnostic.

How?

- Set your timer to 17:30 minutes.
- Follow the [R-S-T-U system](#) (view that video now if you haven’t yet).
- On your first pass, limit your time to 3 minutes on any one problem.

Put your notes away and time yourself on these problems.

p. 354, #'s 2, 3, 5, 10, 14

p. 362, #'s 4, 8, 14

p. 484, #'s 13, 15

When you are finished, see the next page for scoring.

Scoring your test

The answers to the problems on p. 354 are on p. 373 *.

The answers to the problems on p. 362 are on p. 374.

The answers to the problems on p. 481 are on p. 501

| # correct | Score range |
|-----------|-------------|
| 10 | 168 – 170 |
| 9 | 163 – 168 |
| 8 | 158 – 163 |
| 7 | 154 – 158 |
| 6 | 151 – 154 |
| 5 | 148 – 151 |
| 4 | 145 – 148 |
| 3 | 141 – 145 |
| 2 | 135 – 141 |
| 1 | 130 – 135 |
| 0 | 130 |

You should now know which pace works best for you. If your medium and fast score ranges overlap, then use the one that feels more comfortable to you. The most important thing is to know your strategy and stick to it on test day!

* I also recorded [video solutions for simulacra to these five problems](#). If you would like to look at my solution after your timed set, click on the link or search for the individual problems in the Nth Degree Tutoring YouTube channel's search bar (magnifying glass). Enter the term "simulacrum" along with the page number and question number.