Mathematics Grade 7 IAB - The Number System

11 questions are represented by the targets listed in Claim 1.

Claim #1
Concepts and Procedures
Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.

The Number System

Target B
Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

Standards
7.NS 1
7.RP 2
7.RP 3

DOK 1, 2

Created by Orange USD Student Assessment and Educational Measurement (Bourgeois Ph. D./Torres)
Ref: Math Interim Assessment Blocks Blueprint
Revised 7/27/16
2 question is represented by the targets listed in Claim 3.

Claim #3
COMMUNICATING REASONING
Students can clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others.

Target A
Test propositions or conjectures with specific examples.

Target B
Construct, autonomously, 12 chains of reasoning that will justify or refute propositions or conjectures.

Target C
State logical assumptions being used.

Target D
Use the technique of breaking an argument into cases.

Target E
Distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in the argument—explain what it is.

Target F
Base arguments on concrete referents such as objects, drawings, diagrams, and actions.

Target G
At later grades, determine conditions under which an argument does and does not apply. (For example, area increases with perimeter for squares, but not for all plane figures.)

7.RP.2, 7.NS.A, 7.NS.1, 7.NS.2, 7.EE.1, 7.EE.2

Created by Orange USD Student Assessment and Educational Measurement (Bourgeois Ph. D./Torres)
Ref: Math Interim Assessment Blocks Blueprint
Revised 7/27/16
Mathematics Grade 7 IAB - The Number System

1 question is represented by the targets listed in Claim 4.

Claim #4
MODELING AND DATA ANALYSIS
Students can analyze complex, real-world scenarios and can construct and use mathematical models to interpret and solve problems.

- **Target A**: Apply mathematics to solve problems arising in everyday life, society, and the workplace.
- **Target B**: Construct, autonomously, chains of reasoning to justify mathematical models used, interpretations made, and solutions proposed for a complex problem.
- **Target C**: State logical assumptions being used.
- **Target D**: Interpret results in the context of a situation.
- **Target E**: Analyze the adequacy of and make improvements to an existing model or develop a mathematical model of a real phenomenon.
- **Target F**: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas).
- **Target G**: Identify, analyze and synthesize relevant external resources to pose or solve problems.


Created by Orange USD Student Assessment and Educational Measurement (Bourgeois Ph. D./Torres)
Ref: Math Interim Assessment Blocks Blueprint
Revised 7/27/16