

Grade 7 Math

Complete Revision Pack

Diagnostic Test + Three Full Practice Papers + Progress Tracking

Student Name	
Start Date	
Teacher/Parent	

140 Questions	4 Assessments	5 Math Domains
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Original educational content. Common Core-aligned. Not an official or endorsed Common Core assessment.

Recommended order

- Complete the Grade 7 Diagnostic Test before targeted revision.
- Review the answer key and mark each domain score.
- Complete Practice Paper 1 after reviewing priority foundations.
- Use Practice Paper 2 for applications and multi-step reasoning.
- Use Practice Paper 3 as a final cumulative mastery check.
- Correct every missed question before moving to the next assessment.

What is included

Component	Student material	Purpose
Diagnostic Test	20 questions	Identify the starting profile
Practice Paper 1	40 questions	Core skills and fluency
Practice Paper 2	40 questions	Applications and multi-step reasoning
Practice Paper 3	40 questions	Cumulative mastery and reasoning
Tracking pages	Scores and priorities	Measure improvement

Practice Paper 1

Core Skills and Fluency

Student Name	
Date	
Teacher/Parent	

40 Questions	60 Minutes	No Calculator
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Instructions | Read before beginning

Assessment directions

- Allow 60 minutes and work independently.
- Do not use a calculator.
- Choose one answer for each multiple-choice question.
- Show clear working for short-answer, multi-step, and reasoning questions.
- Complete all 40 questions. Each question is worth 1 point.

Quick Answer Record

1		2		3		4	
5		6		7		8	
9		10		11		12	
13		14		15		16	
17		18		19		20	
21		22		23		24	
25		26		27		28	
29		30		31		32	
33		34		35		36	
37		38		39		40	

Domain Allocation

Domain	Questions	Maximum Score
Ratios and Proportional Relationships	1-8	8
The Number System	9-16	8
Expressions and Equations	17-24	8
Geometry	25-32	8
Statistics and Probability	33-40	8

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Scoring Guidance + Worked Solutions + Standards Coverage

Student Name	
Start Date	
Teacher/Parent	

140 Answers	4 Score Guides	5 Standards Domains
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Administration sequence

- Administer the Diagnostic Test before targeted review.
- Allow about 35 minutes for the diagnostic and 60 minutes for each practice paper.
- Follow the calculator directions printed on each paper.
- Score one point per question unless a question-specific rubric is stated.
- Review the worked solution for each incorrect or incomplete response.
- Record domain scores before choosing the next study focus.

Scoring written responses

One-point scoring

- Award 1 point for a correct answer supported by a valid method when work is requested.
- Award 0 points for an incorrect answer, an unsupported guess on a constructed response, or a method that does not address the problem.
- Accept mathematically equivalent forms unless the question requires a specific representation.
- Record concept, procedure, sign, unit, representation, or attention errors separately when useful.

Practice Paper 1

Answer Key, Worked Solutions, and Score Analysis

Core Skills and Fluency

Quick Answer Key | One point per question

Q	Answer	Q	Answer	Q	Answer	Q	Answer
1	8 miles per hour	11	1/10	21	$x = 13$	31	94 square centimeters
2	$y = 4.5x$	12	-8.4	22	$x = -6$	32	60 cubic meters
3	Table A	13	$-3/4$	23	$n \leq 5$	33	Randomly select students from the full school roster
4	The unit rate, or constant of proportionality	14	-5/4, -1.2, -0.75, 0.3	24	6 meetings	34	390 students
5	45	15	0.875	25	36 m	35	Data set B
6	\$54.40	16	-\$27.50	26	144 square meters	36	3/8
7	\$42.60	17	$2x + 15$	27	44 cm	37	3/10
8	\$30	18	$7(2y + 3)$	28	78.5 square centimeters	38	70 times
9	5	19	$8a - 10$	29	62 degrees	39	1/2
10	-4.75	20	$x = 7$	30	47 degrees	40	1/6

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Domain-level review guide

- A secure domain score is usually 7-8 out of 8.
- A score of 5-6 suggests a small number of focused gaps.
- A score of 3-4 suggests developing understanding and targeted reteaching.
- A score of 0-2 suggests priority prerequisite review.
- Use working shown and error type alongside the numerical score.