Comprehensive Placement Test for *Corrective Mathematics*

The *Corrective Mathematics* Comprehensive Placement Test provides a gauge for placing students in SRA's *Corrective Mathematics* series. The Comprehensive Placement Test will determine the correct entry point (both module and lesson) for each student. If the Comprehensive Placement Test is used, it's not necessary to administer the preskill test or the placement tests that are included in the Workbook of each module.

For your convenience, the test is divided into two sections. **Section I** includes: Part A, Addition; Part B, Subtraction; Part C, Multiplication; and Part D, Division. **Section II** includes: Part E, Basic Fractions; Part F, Fractions, Decimals, and Percents; and Part G, Ratios and Equations.

Section I

During two sessions, administer the test either to the entire group or to individuals.

- During the first session, the students will work Parts A and B of the test (addition and subtraction). Allow 20 minutes for this session.
- Give Parts C and D only to those students who make no more than one error on Part A or B. Allow 20 minutes for the second session.

Administration and Scoring of Section I

Step 1

- Make copies of the Comprehensive Placement Test pages for Parts A–D. Distribute the copies.
- Tell the students not to start until you instruct them to start.
- Ask the students to fill in the information called for at the top of the test.

Step 2

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- (Tell the students:) You're going to work Parts A and B of the test today. You'll have 20 minutes.
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 - Series Guide/Placement Testing

- Do all the problems you can. Work the problems right on the test sheet. If you have trouble with a problem, skip it and go on to the next problem.
- Read each problem carefully before you work it.
- Remember to do only Parts A and B. Start now.
- (After 20 minutes, tell the students to stop and hand in their tests.)

Step 3

Grade Parts A and B. There are 11 scorable items in Part A and 13 scorable items in Part B.

Look at the answer key that follows. Notice that there is more than one scorable item for some of the problems the students work.

- For all column problems, each column is scored separately. Each column on the answer key is labeled as an item. The answer for each item is in boldface. The first problem counts as one item because there is only one column. The sixth problem counts as four items (8, 9, 10, 11) because there are four columns.
- Each story problem counts as one item.

Answer Key Part A *Addition*

(Problem 1)

items (1)	2	3		4		5
7	9	4		2		3
+ 1	+ 1	+ 1		3		2
8	10	5		5		0
			+	2	+	1
				12		6
			(Prob	lem 6)		
items (6)	7	8	9	10	(11)	
3	1	1	3	9	3	
2	2	-	6	1	6	
		9	4	8	2	
5	2	+	4	3	4	_
+ 4	1	11	9	2	5	
14	6					

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Answer Key Part B *Subtraction*

items	1	2	3		4	5
	4	8	3		7	6
				_	1	8
					5	8
items	6	\bigcirc	8	9		
	6	2	9	4		
_		5	- 2	8		
	5	7	6	6		
items	10	11)	12	(13)		
	234	176	128	154		

- Count the errors for Part A, and enter the total in the box following the heading "Errors" on the student's test packet.
- Count the errors for Part B, and enter the total in the box following the heading "Errors" on the student's test packet
- Do not administer Parts C and D of the Comprehensive Placement Test to the students who make more than one error on Part A or B. Place those students in either the *Addition* or the *Subtraction* module. See the Placement Directions for specific placement instructions.

Step 4

 Arrange another testing session, and present Parts C and D of the Comprehensive Placement Test. Follow the procedure outlined in Steps 1 and 2. Allow the students up to 20 minutes to complete the test.

Step 50

• Grade Parts C and D of the Comprehensive Placement Test. Notice that on these parts the entire answer to each problem counts as one item. Unit names are not required.

Answer Key Part C *Multiplication*

15	8	27 o	r 27 hours	3
9 or	9 miles	12 o	r 12 chair	S
387	90	10,935	2106	10,560

Part D *Division*

4 3	8 or 8	days	
4 or 4 hours	4 or 4	times	
34 R2	24	56 R6	
60 R27	28 R58		

Step 6

- Place students who make more than one error on Parts C or D in either the *Multiplication* or the *Division* module. (See Placement Directions.)
- If students make no more than one error on either Part C or D, have them take Parts E, F, and G of the Comprehensive Placement Test. See page 29 for directions.

Placement Directions for

Corrective Mathematics: Addition, Subtraction, Multiplication, and *Division*

Part A—Addition

Total Errors	Lesson
8, 9, 10, or 11	Administer the <i>Addition</i> Preskill Test on page 28. Begin with Lesson 1 if Preskill Test is passed.
6 or 7	Present Transition Lesson 8 in the <i>Addition</i> Teacher's Presentation Book, and then begin instruction in the <i>Addition</i> module at Lesson 8.
2, 3, 4, or 5	Present Transition Lesson 23 in the <i>Addition</i> Teacher's Presentation Book, and then begin instruction in the <i>Addition</i> module at Lesson 23.
0 or 1	These students are too proficient for the <i>Addition</i> module. See the chart to determine whether they should be placed in the <i>Subtraction</i> module.



The Addition Preskill Test

The Addition Preskill Test is given to students who made 8 or more errors on Part A of the Placement Test. This test is individually administered and requires about five minutes. It tests students on their ability to count and to identify two-digit numbers. Students who make no more than one error on each section of the test should enter the module at Lesson 1. Students who exceed the error limit should not be placed in the module. *Distar[®], Arithmetic I* or *Connecting Math Concepts* would be more appropriate for these students.

Following is the script that should be used for administering the Addition Preskill Test.

Part A

a. (Write the following numbers on the board or on a sheet of paper:)

17 32 18 56 90 12 39 81

- b. (Point to 17.) Read the number. (Signal.) *17.*
- c. (Repeat step b for the rest of the numbers.)

Part B

- a. I'm going to count. When I stop counting I want you to keep counting until I tell you to stop.
- b. 7, 8, 9. (Stop the students when they reach 15.)
- c. 16, 17, 18. (Stop the students when they reach 22.)
- d. 36, 37, 38. (Stop the students when they reach 41.)
- e. 88, 89. (Stop the students when they reach 93.)

Total Errors	Lesson
11, 12, or 13	Begin with Lesson 1 in the <i>Subtraction</i> module.
5, 6, 7, 8, 9, or 10	Present Transition Lesson 8 in the <i>Subtraction</i> Teacher's Presentation Book, and then begin instruction in the <i>Subtraction</i> module at Lesson 8.
2, 3, or 4	Present Transition Lesson 25 in the <i>Subtraction</i> Teacher's Presentation Book, and then begin instruction in the <i>Subtraction</i> module at Lesson 25.
0 or 1	These students are too proficient for the <i>Subtraction</i> module. Test the students on Parts C and D of the Comprehensive Placement Test.

Part B—Subtraction

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Part C—*Multiplication*

Total Errors	Lesson
9 or 10	Begin with Lesson 1 in the <i>Multiplication</i> module.
5, 6, 7, or 8	Present Transition Lesson 10 in the <i>Multiplication</i> Teacher's Presentation Book, and then begin instruction in the <i>Multiplication</i> module at Lesson 10.
2, 3, or 4	Present Transition Lesson 27 in the <i>Multiplication</i> Teacher's Presentation Book, and then begin instruction in the <i>Multiplication</i> module at Lesson 27
0 or 1	These students are too proficient for <i>Multiplication</i> . See the following chart to determine whether they should be placed in <i>Division</i> .

Part D—Division

Total Errors	Lesson
9 or 10	Begin with Lesson 1 in the <i>Division</i> module module.
5, 6, 7, or 8	Present Transition Lesson 6 in the <i>Division</i> Teacher's Presentation Book, and then begin instruction in the <i>Division</i> module at Lesson 6.
2, 3, or 4	Present Transition Lesson 27 in the <i>Division</i> Teacher's Presentation Book, and then begin instruction in the <i>Division</i> module at Lesson 27.
0 or 1	These students are too proficient for the <i>Division</i> module. Test the students on Section II (Parts E, F, G) of the Comprehensive Placement Test.

Section II

During one session, administer the test either to the entire group or to individuals.

Administration and Scoring of Section II

Step 1

- Make copies of the Comprehensive Placement Test pages for Parts E–G. Distribute the copies.
- Tell the students not to start until you instruct them to start.
- Ask the students to fill in the information called for at the top of the test.

Step 2

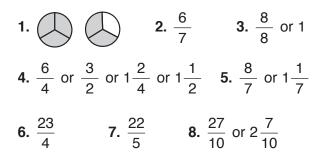
- (Tell the students:) You're going to work Parts E, F, and G of the test today. You'll have 40 minutes to complete the test.
- You may work the problems on a separate sheet of paper, but be sure to write your answers on the test.
- Do all the problems you can. Work the problems right on the test sheet. If you have trouble with a problem, skip it and go on to the next problem.
- Read each problem carefully before you work it.

- Start now.
- (After 40 minutes, tell the students to stop and hand in their tests.)

Step 3

Grade Section II. Notice that in Part G the answers are not incorrect if the student did not include the word as part of the answer.

Answer Key Part E *Basic Fractions*



Part F *Fractions, Decimals, and Percents*

1. $\frac{17}{6}$ or $2\frac{5}{6}$	2. $\frac{2}{3}$	3. 3 $\frac{3}{4}$
4. $\frac{6}{8}$ or $\frac{3}{4}$	5. 20	6. 11.529
7. 87.5% or 87 -	1 2 %	

Part G Ratios and Equations

- **1.** $\frac{21}{20}$ or $1\frac{1}{20}$ or 1.05 meters
- **2.** $\frac{350}{12}$ or $29\frac{2}{12}$ or $29\frac{1}{6}$ meters
- **3.** 6R = 18 or R = 3, 6R = 18
- **4.** 60
- 5. $\frac{10}{3}$ or $3\frac{1}{3}$ or 3.33 meters

Placement Directions for *Corrective Mathematics:*

Basic Fractions; Fractions, Decimals, and Percents; and Ratios and Equations

Part E—Basic Fractions

Total Errors	Lesson
6, 7, or 8	Begin with Lesson 1 in <i>Basic Fractions</i> .
4 or 5	Begin with Lesson 19 in <i>Basic</i> Fractions.
2 or 3	Begin with Lesson 30 in <i>Basic Fractions</i> .
0 or 1	These students are too proficient for <i>Basic Fractions</i> . See the following chart to determine whether they should be placed in <i>Fractions, Decimals, and Percents.</i>

Part F—*Fractions, Decimals, and Percents*

Total Errors	Lesson
5, 6, or 7	Begin with Lesson 1 in <i>Fractions, Decimals, and Percents</i> .
2, 3, or 4	Begin with Lesson 30 in <i>Fractions, Decimals, and Percents</i> .
0 or 1	These students are too proficient for Fractions, Decimals, and Percents.
	See the following chart to determine whether they should be placed in <i>Ratios and Equations.</i>

Part G—Ratios and Equations

Total Errors	Lesson
3, 4, or 5	Begin with Lesson 1 in <i>Ratios and Equations</i> .
0, 1, or 2	These students are too proficient for <i>Ratios and Equations</i> .

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Section I Parts A and B

Name			Class	Date	
School			Tester		
Part A					Errors
7 + 1	9 + 1	4 + 1	23 32 50 + 21	31 22 52 + 41	$ 1393 \\ 616 \\ 9482 \\ + 434 $
Part B					Errors
5 <u>- 1</u>	9 <u>- 1</u>	6 <u>- 3</u>	76 - 18	62 - 5	94 - 28
	89 red cars and more blue cars a	423 blue cars. re there than red	cars?		
		les. The shop ga the shop give av	ve away 90 orange way?	es.	
Ann found 206 pencils. 78 of the pencils were broken. How many of the pencils were not broken?					
	146 girls go to our school. There are 300 children altogether in our school. How many boys go to our school?				
					Stop.

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Section I Part C

Name		_ Class	_ Date	
School		Tester		
Part C				Errors
5 × 3	2 <u>× 4</u>			
	hours every day. She worked 9 da ours did she work altogether?	ays.		

Ann ran 5 miles on Monday. Then she ran 4 miles on Tuesday. How many miles did she run altogether?

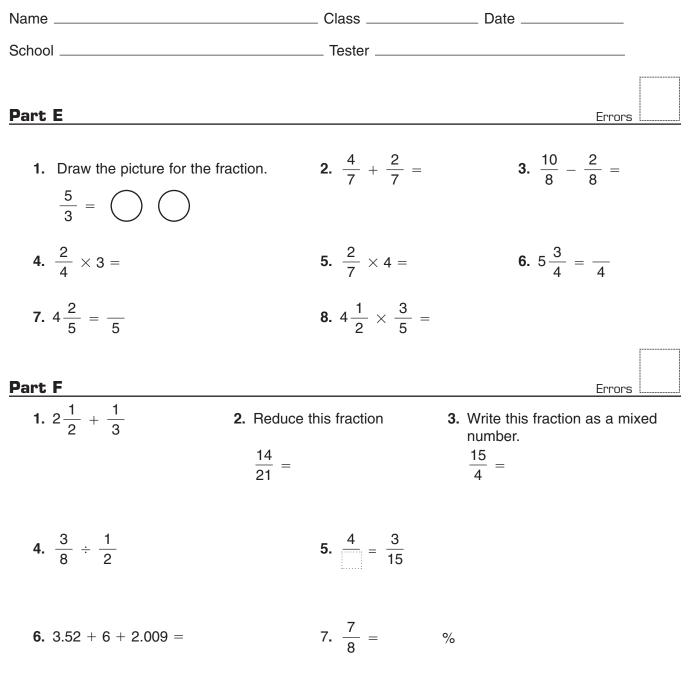
There are 3 chairs in each row. There are 4 rows of chairs. How many chairs are there altogether?

43	45	405	54	264
× 9	<u>× 2</u>	<u>× 27</u>	\times 39	\times 40

Section I Part D

Name		Class	_ Date	
School		_ Tester		
Part D				Errors
3 12 9 27				
5 buses left Midville ead How many days did bus	ch day. 40 buses left in a ses leave Midville?	11.		
Fred typed 2 pages eac How many hours did he	ch hour. He typed 8 page e type?	°S.		
	ogging, she ran 5 blocks v many times did she go			
3 104	9216	48 2694		
54 3267	82 2354			
				Stop.

Section II Parts E and F



Section II Part G

Name	(Class	Date	
Schoo	l	Tester		
Part	G		F	rrors
Part	6		E	
1.	An oak tree is 5 meters high and makes a shadow. A maple tree is 7 meters high. How many meters is its shadow?	$a \frac{3}{4}$ meter		
2.	Pam runs 50 meters in 12 seconds, how she run in 7 seconds?	far can		
3.	3.5R = 10.5 Figure out what 6R equals.			
4.	15% of what number is 9?			
5.	If 3 boxes contain $2\frac{1}{2}$ meters of wire, how long is the wire in 4 boxes?			
				Stop.