

Appendix A: Placement Test

The Placement Test provides for three outcomes:

- The student lacks the necessary skills to place in *CMC Level D*.
- The student places at Lesson 1 of *CMC Level D*.
- The student places at Lesson 26 of *CMC Level D*.

The test has two sections: 1 and 2.

Students who have **not** gone through *CMC Level C* should take Section 1. Results of this section will determine whether each student has the necessary skills to place at Lesson 1. Students who have gone through *CMC Level C* should take Section 2. Results of this section will determine whether each student places at Lesson 1 or Lesson 26 of *Level D*.

If possible, present the Placement Test on the first day of instruction. Pass out a test to each student. Present the wording in the test Administration Directions script.

Note: What you say is shown in blue type. When observing students, make sure that they are working on the correct part of the test. Do not prompt them in a way that would let them know the answer to an item.

Reproducible copies of the test appear on pages 186–187 of this guide.

CONNECTING MATH CONCEPTS— LEVEL D

PLACEMENT TEST, Section 1

Administration Directions

- (Hand out Placement Test, Section 1.)
 - Write your name on the top line.
(Check student responses.)
- Touch Part 1. ✓
(Teacher reference:)

a. _____	b. _____	c. _____	d. _____
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I'll say numbers. You'll write them on the lines.

- Touch A. ✓
400. What number? (Signal.) 400.
Write 400. ✓
- Touch B. ✓
260. What number? (Signal.) 260.
Write 260. ✓
- Touch C. ✓
103. What number? (Signal.) 103.
Write 103. ✓
- Touch D. ✓
375. What number? (Signal.) 175.
Write 375. ✓
- Pencils down. ✓
- c. Touch Part 2. ✓
(Teacher reference:)

a. 8 + 3	b. 3 + 6	c. 10 + 4	d. 2 + 9	e. 4 + 6	f. 3 + 5	g. 10 + 7	h. 5 + 4
i. 10 - 4	j. 7 - 7	k. 7 - 3	l. 9 - 8	m. 9 - 4	n. 10 - 7	o. 4 - 0	p. 9 - 6

For Part 2, you'll write answers to addition and subtraction problems. I'll time you. You'll have 1 minute and 15 seconds to write the answers to the problems in Part 2.

- Pencils read. Go. ✓

- (After 1 minute and 15 seconds, say:) **Stop.** Put an **X** next to any problem you didn't work. (Observe students but do not give feedback.)

d. **Touch Part 3.** ✓

(Teacher reference:)

a. $\begin{array}{r} 324 \\ + 54 \\ \hline \end{array}$	b. $\begin{array}{r} 462 \\ - 130 \\ \hline \end{array}$	c. $\begin{array}{r} 756 \\ + 203 \\ \hline \end{array}$	d. $\begin{array}{r} 846 \\ - 35 \\ \hline \end{array}$
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These are addition and subtraction problems.

- Work the problems in Part 3. Pencils down when you're finished.

(Observe students but do not give feedback.)

- e. (Collect and score Placement Test, Section 1.)

PLACEMENT CRITERIA

Students who make 0 to 6 errors, including items not worked.	Place at Lesson 1 of CMC D.
Students who make 7 or more errors, including items not worked.	Administer CMC Level C Placement Test.

CONNECTING MATH CONCEPTS—LEVEL D

PLACEMENT TEST, Section 2

Administration Directions

- a. (Hand out Placement Test, Section 2.)

- Write your name on the top line.

(Check student responses.)

- Pencils down. ✓

- b. **Touch Part 1.** ✓

(Teacher reference:)

a. $\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$	b. $\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$	c. $\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$	d. $\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$	e. $\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$	f. $\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$	g. $\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$	h. $\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$	i. $\begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$	j. $\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$
k. $\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$	l. $\begin{array}{r} 13 \\ - 5 \\ \hline \end{array}$	m. $\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$	n. $\begin{array}{r} 11 \\ - 7 \\ \hline \end{array}$	o. $\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$	p. $\begin{array}{r} 13 \\ - 7 \\ \hline \end{array}$	q. $\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$	r. $\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$	s. $\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$	t. $\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$

You'll write the answer to each problem in Part 1.

I'll time you. You'll have 1 minute and 30 seconds. Be careful. The first row has addition problems. The second row has subtraction problems.

- Pencils ready. Go. ✓

- (After 1 minute and 30 seconds, say:) **Stop.** Put an **X** next to any problem you didn't work.

(Observe students but do not give feedback.)

- c. **Touch Part 2.** ✓

(Teacher reference:)

a. $\underline{\quad} \xrightarrow{f} 65$	b. $17 \xrightarrow{3} k$
c. $m \xrightarrow{4} 26$	d. $13 \xrightarrow{131} b$

Part 2 has number families with two numbers and a letter.

- For each number family, work a column problem to figure out what the letter equals. Pencils down when you're finished.

(Observe students but do not give feedback.)

d. Touch Part 3. ✓

(Teacher reference:)

a. The tree is 34 feet taller than the house. →	b. Mary has 16 fewer stickers than Amy has. →
c. The dog is 25 inches shorter than the cat. →	d. James weighs 14 more pounds than Robert weighs. →

These are sentences that compare two people or two things. I'll read each sentence. Follow along.

- Sentence A: The tree is 34 feet taller than the house.
- Sentence B: Mary has 16 fewer stickers than Alice has.
- Sentence C: The dog is 25 inches shorter than the cat.
- Sentence D: James weighs 14 more pounds than Robert weighs.
- For each sentence, write two letters and a number in the number family. Pencils down when you're finished.

(Observe students but do not give feedback.)

e. Touch Part 4. ✓

(Teacher reference:)

a. $\begin{array}{r} 470 \\ - 26 \\ \hline \end{array}$	b. $\begin{array}{r} 524 \\ - 293 \\ \hline \end{array}$	c. $\begin{array}{r} 382 \\ - 96 \\ \hline \end{array}$	d. $\begin{array}{r} 903 \\ - 73 \\ \hline \end{array}$
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These are subtraction problems.

- Work each problem.
Pencils down when you're finished.
(Observe students but do not give feedback.)
- f. (Collect and score Placement Test, Section 2.)

SCORING THE TEST

Part	Pass	Not Pass
Part 1	0 to 4 errors	5 or more errors
Part 2	0 or 1 error	2 or more errors
Part 3	0 or 1 error	2 or more errors
Part 4	0 or 1 error	2 or more errors

PLACEMENT CRITERIA

Students who pass 4 Parts	Begin <i>CMC Level D</i> at Lesson 26
Students who pass 1, 2 or 3 Parts	Begin <i>CMC Level D</i> at Lesson 1
Students who pass no Parts	Administer Section 1



errors

CMC Level D Placement Test Section 1

Name: _____

Part 1

a. _____

b. _____

c. _____

d. _____

Part 2

a.
$$\begin{array}{r} 8 \\ + 3 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 10 \\ + 4 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 2 \\ + 9 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

g.
$$\begin{array}{r} 10 \\ + 7 \\ \hline \end{array}$$

h.
$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

i.
$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

j.
$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

k.
$$\begin{array}{r} 7 \\ - 3 \\ \hline \end{array}$$

l.
$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

m.
$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

n.
$$\begin{array}{r} 10 \\ - 7 \\ \hline \end{array}$$

o.
$$\begin{array}{r} 4 \\ - 0 \\ \hline \end{array}$$

p.
$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

Part 3

a.
$$\begin{array}{r} 324 \\ + 54 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 462 \\ - 130 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 756 \\ + 203 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 846 \\ - 35 \\ \hline \end{array}$$



errors

CMC Level D Placement Test Section 2 Name: _____

Part 1

a. $\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$ b. $\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$ c. $\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$ d. $\begin{array}{r} 6 \\ + 8 \\ \hline \end{array}$ e. $\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$ f. $\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$ g. $\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$ h. $\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$ i. $\begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$ j. $\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$

k. $\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$ l. $\begin{array}{r} 13 \\ - 5 \\ \hline \end{array}$ m. $\begin{array}{r} 14 \\ - 6 \\ \hline \end{array}$ n. $\begin{array}{r} 11 \\ - 7 \\ \hline \end{array}$ o. $\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$ p. $\begin{array}{r} 13 \\ - 7 \\ \hline \end{array}$ q. $\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$ r. $\begin{array}{r} 14 \\ - 9 \\ \hline \end{array}$ s. $\begin{array}{r} 15 \\ - 8 \\ \hline \end{array}$ t. $\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$

Part 2

a. $\begin{array}{r} 30 \\ \hline \end{array} \xrightarrow{f} 65$

b. $\begin{array}{r} 17 \\ \hline \end{array} \xrightarrow{3} k$

c. $\begin{array}{r} m \\ \hline \end{array} \xrightarrow{4} 26$

d. $\begin{array}{r} 13 \\ \hline \end{array} \xrightarrow{131} b$

Part 3

a. The tree is 34 feet taller than the house.



b. Mary has 16 fewer stickers than Amy has.



c. The dog is 25 inches shorter than the cat.



d. James weighs 14 more pounds than Robert weighs.



Part 4

a. $\begin{array}{r} 470 \\ - 26 \\ \hline \end{array}$

b. $\begin{array}{r} 524 \\ - 293 \\ \hline \end{array}$

c. $\begin{array}{r} 382 \\ - 96 \\ \hline \end{array}$

d. $\begin{array}{r} 903 \\ - 73 \\ \hline \end{array}$

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CMC Level D Placement Test Answer Key, Section 1

(varies) errors
 CMC Level D Placement Test Section 1 Name: _____

Part 1

a. 400 b. 260 c. 103 d. 375

Part 2

a. 8 b. 3 c. 10 d. 2 e. 4 f. 3 g. 10 h. 5

$$\begin{array}{r} +3 \\ 11 \end{array}$$

$$\begin{array}{r} +6 \\ 9 \end{array}$$

$$\begin{array}{r} +4 \\ 14 \end{array}$$

$$\begin{array}{r} +9 \\ 11 \end{array}$$

$$\begin{array}{r} +6 \\ 10 \end{array}$$

$$\begin{array}{r} +5 \\ 8 \end{array}$$

$$\begin{array}{r} +7 \\ 17 \end{array}$$

$$\begin{array}{r} +4 \\ 9 \end{array}$$

i. 10 j. 7 k. 7 l. 9 m. 9 n. 10 o. 4 p. 9

$$\begin{array}{r} -4 \\ 6 \end{array}$$

$$\begin{array}{r} -7 \\ 0 \end{array}$$

$$\begin{array}{r} -3 \\ 4 \end{array}$$

$$\begin{array}{r} -8 \\ 1 \end{array}$$

$$\begin{array}{r} -4 \\ 5 \end{array}$$

$$\begin{array}{r} -7 \\ 3 \end{array}$$

$$\begin{array}{r} -0 \\ 4 \end{array}$$

$$\begin{array}{r} -6 \\ 3 \end{array}$$

Part 3

a. $\begin{array}{r} 324 \\ +54 \\ \hline 378 \end{array}$ b. $\begin{array}{r} 462 \\ -130 \\ \hline 332 \end{array}$ c. $\begin{array}{r} 756 \\ +203 \\ \hline 959 \end{array}$ d. $\begin{array}{r} 846 \\ -35 \\ \hline 811 \end{array}$

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Connecting Math Concepts Placement Test 1

CMC Level D Placement Test Answer Key, Section 2

(varies) errors
 CMC Level D Placement Test Section 2 Name: _____

Part 1

a. 6 b. 3 c. 5 d. 6 e. 5 f. 9 g. 9 h. 7 i. 9 j. 8

$$\begin{array}{r} +9 \\ 15 \end{array}$$

$$\begin{array}{r} +8 \\ 11 \end{array}$$

$$\begin{array}{r} +9 \\ 14 \end{array}$$

$$\begin{array}{r} +8 \\ 14 \end{array}$$

$$\begin{array}{r} +7 \\ 12 \end{array}$$

$$\begin{array}{r} +7 \\ 16 \end{array}$$

$$\begin{array}{r} +5 \\ 14 \end{array}$$

$$\begin{array}{r} +6 \\ 13 \end{array}$$

$$\begin{array}{r} +8 \\ 17 \end{array}$$

$$\begin{array}{r} +7 \\ 15 \end{array}$$

k. 17 l. 13 m. 14 n. 11 o. 16 p. 13 q. 15 r. 14 s. 15 t. 14

$$\begin{array}{r} -9 \\ 8 \end{array}$$

$$\begin{array}{r} -5 \\ 8 \end{array}$$

$$\begin{array}{r} -6 \\ 8 \end{array}$$

$$\begin{array}{r} -7 \\ 4 \end{array}$$

$$\begin{array}{r} -7 \\ 9 \end{array}$$

$$\begin{array}{r} -7 \\ 6 \end{array}$$

$$\begin{array}{r} -6 \\ 9 \end{array}$$

$$\begin{array}{r} -9 \\ 5 \end{array}$$

$$\begin{array}{r} -8 \\ 7 \end{array}$$

$$\begin{array}{r} -5 \\ 9 \end{array}$$

Part 2

a. $\begin{array}{r} 30 \\ \rightarrow 65 \end{array}$ f	$\begin{array}{r} 65 \\ -30 \\ \hline 35 \end{array}$	b. $\begin{array}{r} 17 \\ \rightarrow 3 \end{array}$ k	$\begin{array}{r} 17 \\ +3 \\ \hline 20 \end{array}$
c. $\begin{array}{r} m \\ \rightarrow 26 \end{array}$ 4	$\begin{array}{r} 26 \\ -4 \\ \hline 22 \end{array}$	d. $\begin{array}{r} 13 \\ \rightarrow 131 \end{array}$ b	$\begin{array}{r} 131 \\ +13 \\ \hline 144 \end{array}$

Part 3

a. The tree is 34 feet taller than the house. $\begin{array}{r} 34 \\ \rightarrow h \end{array}$ t	b. Mary has 16 fewer stickers than Amy has. $\begin{array}{r} 16 \\ \rightarrow m \end{array}$ A
c. The dog is 25 inches shorter than the cat. $\begin{array}{r} 25 \\ \rightarrow d \end{array}$ c	d. James weighs 14 more pounds than Robert weighs. $\begin{array}{r} 14 \\ \rightarrow R \end{array}$ J

Part 4

a. $\begin{array}{r} 470 \\ -26 \\ \hline 444 \end{array}$ b. $\begin{array}{r} 524 \\ -293 \\ \hline 231 \end{array}$ c. $\begin{array}{r} 382 \\ -96 \\ \hline 286 \end{array}$ d. $\begin{array}{r} 903 \\ -73 \\ \hline 831 \end{array}$

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