

Placement

The Bridge is appropriate for students in grades 6 or above who have not been through Level E of *Connecting Math Concepts* and who pass the placement test.

A reproducible copy of the placement test appears on pages 7–8.

Administering the Placement Test

Try to test students on the first day of instruction. Allow 20 minutes.

Pass out a test form to each student. Give the following directions:

- You'll do the test on your own. Read each problem. Show the work for each problem and the answer. Raise your hand when you're finished.
- (Collect test forms.)

Placement Criteria

The criteria for passing the test are:

	Pass	Fail
Part 1	0–1 errors	2 or more errors
Part 2	0–1 errors	2 or more errors
Part 3	0–1 errors	2 or more errors
Part 4	0–1 errors	2 or more errors
Part 5	0–1 errors	2 or more errors
Part 6	0–1 errors	2 or more errors
OVERALL	Students pass 4–6 parts and make no more than 7 errors.	Students pass 3 or fewer parts.

Is the Bridge appropriate for your classroom? A rule of thumb is that three-fourths or more of the students in the class should pass the placement test. If the class is particularly weak on parts of the placement test, work on these skills before starting with the Bridge. Present items similar to those on the test.

Placement Test Summary

Name	Mark parts passed (0 or 1 error per part)						Pass 4-6 parts passed and fewer than 8 errors	Fail 0-3 parts passed and/or more than 7 errors
	1	2	3	4	5	6		
1.								
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28.								
29.								
30.								
Number of students Passed = P								
Total number of students = T								
Present the program if P/T = 75% or more								

Placement Test (Pre-Program)

Name _____ Score _____

Part 1 Answer each question.

408 4008 4807 480 3964 478

- a. Which number is largest? _____
- b. Which number is smallest? _____
- c. Which number has the smallest hundreds digit? _____
- d. How many digits are in 3964? _____
- e. What is the hundreds digit in 3964? _____

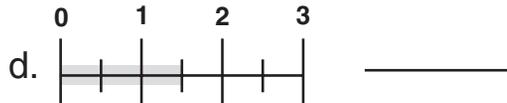
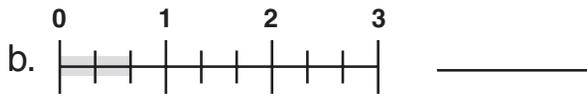
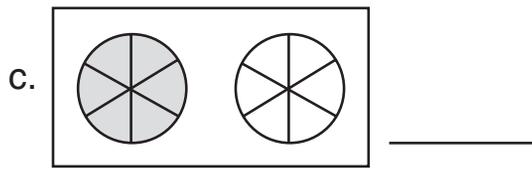
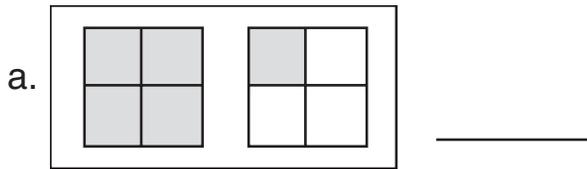
Part 2 Figure out the answer to each question.

- a. Phyllis had 48 dogs. She bought another 36 dogs. How many dogs does Phyllis have now? _____
- b. A man had 74 stamps in his collection. He traded some stamps for coins. Now he has 46 stamps. How many stamps did he trade? _____
- c. A truck started out with 2085 pounds of gravel. It delivered 1290 pounds of gravel. How many pounds of gravel were still on the truck? _____

Part 3 Work each item.

- a. $14 + \square = 14$
- b. $\square - 9 = 0$
- c. $3 \times 6 = \square$
- d. $1 \times \square = 37$
- e. $26 \times \square = 0$
- f. $58 - \square = 53$
- g. $\square + 1 = 74$

Part 4 Write the fraction for each diagram.



Part 5 Work each item.

a.
$$\begin{array}{r} 34 \\ \times 9 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 63 \\ \times 13 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 6005 \\ - 904 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 417 \\ 94 \\ + 159 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 406 \\ - 318 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 584 \\ \times 75 \\ \hline \end{array}$$

Part 6 Work each item.

a. $9 \overline{)936}$

b. $4 \overline{)288}$

c. $9 \overline{)89}$

d. $3 \overline{)765}$

Placement Test (Pre-Program)

Answer Key

Part 1 Answer each question.	Part total	Passing
	5	0–1 errors

408 4008 4807 480 3964 478

- a. Which number is largest? 4807
- b. Which number is smallest? 408
- c. Which number has the smallest hundreds digit? 4008
- d. How many digits are in 3964? 4
- e. What is the hundreds digit in 3964? 9

Part 2 Figure out the answer to each question.	Part total	Passing
	3	0–1 errors

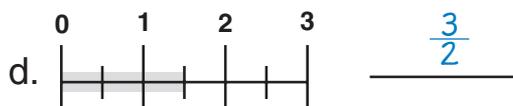
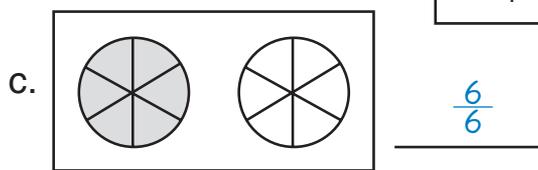
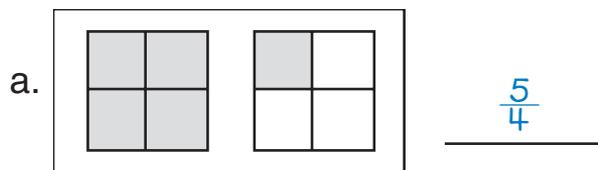
- a. Phyllis had 48 dogs. She bought another 36 dogs. How many dogs does Phyllis have now? 84 (dogs)
- b. A man had 74 stamps in his collection. He traded some stamps for coins. Now he has 46 stamps. How many stamps did he trade? 28 (stamps)
- c. A truck started out with 2085 pounds of gravel. It delivered 1290 pounds of gravel. How many pounds of gravel were still on the truck? 795 (pounds)

Part 3 Work each item.	Part total	Passing
	7	0–1 errors

- a. $14 + \boxed{0} = 14$
- b. $\boxed{9} - 9 = 0$
- c. $3 \times 6 = \boxed{18}$
- d. $1 \times \boxed{37} = 37$
- e. $26 \times \boxed{0} = 0$
- f. $58 - \boxed{5} = 53$
- g. $\boxed{73} + 1 = 74$

Part 4 Write the fraction for each diagram.

Part total	Passing
4	0–1 errors



Part 5 Work each item.

Part total	Passing
6	0–1 errors

a.
$$\begin{array}{r} 34 \\ \times 9 \\ \hline 306 \end{array}$$

b.
$$\begin{array}{r} 63 \\ \times 13 \\ \hline 186 \\ + 620 \\ \hline 806 \end{array}$$

c.
$$\begin{array}{r} 6005 \\ - 904 \\ \hline 5101 \end{array}$$

d.
$$\begin{array}{r} 417 \\ 94 \\ + 159 \\ \hline 670 \end{array}$$

e.
$$\begin{array}{r} 406 \\ - 318 \\ \hline 88 \end{array}$$

f.
$$\begin{array}{r} 584 \\ \times 75 \\ \hline 2920 \\ + 40880 \\ \hline 43800 \end{array}$$

Part 6 Work each item.

Part total	Passing
4	0–1 errors

a.
$$9 \overline{) 936} \begin{array}{l} 104 \end{array}$$

b.
$$4 \overline{) 288} \begin{array}{l} 72 \end{array}$$

c.
$$9 \overline{) 89} \begin{array}{l} 9 \frac{8}{9} \\ \text{(or } 9 \text{ r}8) \end{array}$$

d.
$$3 \overline{) 765} \begin{array}{l} 255 \end{array}$$