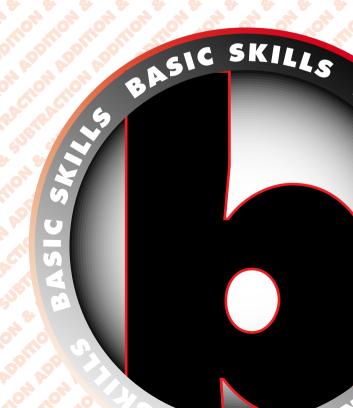
Developmental Mathematics



PLACEMENT TEST B

How to Use the Placement Test

The Placement Test pamphlet is composed of three parts; the student's Placement Test, the educator's Placement Guidelines, and the Placement Key. The educator's Placement Guidelines and the Placement Key are contained on the inside front cover and inside back cover of the pamphlet, respectively. The student's Placement Test is enclosed as the eight-page contents of the pamphlet. Please remove the cover of the Placement Test pamphlet for the educator, so the student does not have access to the Placement Key. Give the eight-page Placement Test to the student for completion, and use the following Placement Guidelines and Placement Key to check his or her work. It's as easy as 1, 2, 3!

Placement Guidelines

Placement Test B covers the theoretical concepts, basic facts, and practical skills in *Developmental Mathematics* Levels 5, 6, and 7. The specific Placement Test questions that address these Levels are as follows:

- Level 5. Tens and Ones: Simple Additions and Subtractions. Questions 1 8
- Level 6. Tens and Ones: Adding with Grouping. Questions 9 13
- Level 7. Tens and Ones: Subtracting with Exchange. Questions 14 18

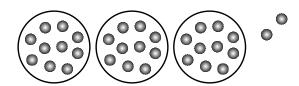
The student should attempt to complete the entire Placement Test until he or she cannot proceed without aid. After the student completes the questions, the educator should analyze the responses that address a specific Level, item by item, and evaluate the quality of the student's performance. The usual results that have been observed show a decrease in the quality of the student's performance in the more complicated concepts tested toward the end of the Placement Test. If *most* of the answers given are correct, then the student has successfully passed the current Level of the Placement Test. However, if *most* of the answers are incorrect or the student is hesitant in giving his or her answers, then the student is in need of practice, and he or she should begin the *Developmental Mathematics* curriculum with the current Level. Good Luck!

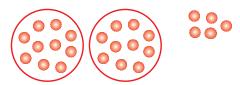
Mathematics Placement and Scoring System (MPASS)

Mathematics Programs Associates (MPA), with the expertise of Pyramid Software, has developed an automated computerized version of the *Developmental Mathematics* placement framework, available on disk and on the World Wide Web. Visit our internet distributor at www.greatpyramid.com, and find the placement mechanism within the mathematics section of the product module. You can also learn more about MPA and *Developmental Mathematics* and order other great products available through Great Pyramid. Have fun!

PLACEMENT TEST B Addition and Subtraction: Basic Skills Name: Date: 1. a. How many items? Write the word. b. How many items? TENS **ONES** 000 000 c. How many items? TENS **ONES** d. How many items? TENS **ONES** 000 000 000 2. a. How many cents? TENS **ONES** b. How many cents? TENS **ONES** c. How many cents? TENS ONES

- 3. a. 32 + 25 =
 - b. Make the picture show it.





4. Write the answer:

a.
$$25 + 30 =$$

c.
$$45 + 54 =$$

$$d. 21 + 8 =$$

$$f. 27 + 60 =$$

g.
$$31 + 47 =$$
 ____ h. $68 + 20 =$ ___ i. $43 + 3 =$

$$h. 68 + 20 =$$

$$i. 43 + 3 =$$

5. How much money is shown?

a.









b.





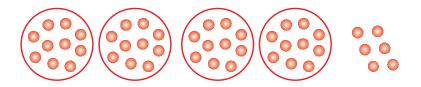




- c. 1 quarter and 3 dimes:
- d. 5 dimes and 1 nickel:
- e. 1 quarter, 1 dime, and 1 cent:
- f. 4 dimes, 1 quarter, and 3 cents:

6. a. 46 - 12 =

b. Make the picture show it.



7. Write the answer:

a.
$$58-21 =$$
 b. $65-23 =$ c. $89-75 =$

b.
$$65 - 23 =$$

c.
$$89 - 75 =$$

d.
$$73 - 52 =$$
 e. $36 - 16 =$

$$e. 36 - 16 =$$

g.
$$35 + 4 =$$
 ____ i. $84 + 2 =$

$$h. 98 - 5 =$$

8. Write number sentences:

a. Bob had 45¢.

He spent 21¢.

How much does he have now?

b. Sue had 47¢.

Her Dad gave her 32¢.

How much does she have now?

c. Mom spent \$43.

She still has \$31.

How much did she have?

9. a. You have 7 items.

You want to add 8 items.

Make the picture show it.





b. You have 5 items.

You want to add 9 items.

Make the picture show it.





10. Write the answer:

$$2 + 8 =$$

$$3 + 8 =$$

$$9 + 9 =$$

$$5 + 9 =$$

$$9 + 3 =$$

$$7 + 3 =$$
 ______ $9 + 5 =$ _____

$$6 + 7 =$$

$$8 + 8 =$$

$$4 + 8 =$$

$$5 + 6 =$$

$$5 + 7 =$$

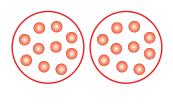
4 + 6 =

$$4 + 7 =$$

$$8 + 5 =$$

11. a. 26 + 4 =____

b. Make the picture show it.



c. Do it step by step:



12. Write the answer:

a.
$$35 + 5 =$$

$$c. 67 + 3 =$$

d.
$$52 + 8 =$$
 e. $63 + 7 =$

e.
$$63 + 7 =$$

g.
$$28 + 7 =$$
 h. $56 + 9 =$

h.
$$56 + 9 =$$

$$k.46 + 34 =$$

m.
$$57 + 18 =$$
 n. $25 + 29 =$

$$1.25 + 29 = 0$$

q.
$$28 + 7 + 29 =$$

+ 18

r.
$$16 + 8 + 25 + 7 =$$

s.
$$9 + 8 + 7 + 36 =$$

13. Write the answer:

+ 14

a.	62	b. 23	c. 52	d. 76
	+ 8	+7	+ 28	+ 14
e.	29	f. 45	g. 45	h. 69
	+ 5	+8	+ 17	+ 21
i.	39 25	j. 28 47	k. 14 9	1. 9 27 18

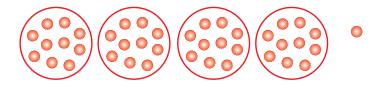
+ 15

14. Write the answer:

10 – 2 =	10 – 3 =	10 – 8 =
10 – 9 =	10 – 5 =	10 – 1 =
10 – 6 =	10 – 7 =	10 – 4 =
12 – 8 =	11 – 3 =	13 – 5 =
15 – 9 =	16 – 9 =	14 – 5 =
11 – 7 =	11 – 8 =	13 – 8 =
12 – 6 =	15 – 8 =	11 – 4 =
11 – 6 =	13 – 9 =	11 – 9 =
15 – 7 =	14 – 6 =	11 – 2 =
11 – 5 =	14 – 7 =	14 – 9 =
17 – 9 =	12 – 3 =	17 – 8 =
12 – 4 =	12 – 5 =	13 – 7 =
18 – 9 =	16 – 7 =	16 – 8 =
12 – 7 =	14 – 8 =	13 – 6 =
15 – 6 =	12 – 9 =	13 – 4 =

15. a. 41-5 =____

b. Make the picture show it.



16. Write the answer:

a.
$$70 - 8 =$$

a.
$$70 - 8 =$$
 ____ b. $40 - 6 =$ ____ c. $30 - 3 =$ ____

c.
$$30 - 3 =$$

d.
$$24-9=$$
 ____ e. $51-6=$ ____ f. $61-5=$ ____

e.
$$51 - 6 =$$

$$f. 61 - 5 =$$

g.
$$50 - 37 =$$

h.
$$50 - 48 =$$

g.
$$50 - 37 =$$
 _____ i. $40 - 26 =$ _____

17. Write the answer:

a. 60	b. 40 — 2	c. 70	d. 50
- 7		- 3	- 9
e. 42	f. 74	g. 96	h. 24
- 8	- <u>7</u>	- 9	- 8
i. 80	j. 40	k. 50	1. 60
- 16	− 18	- 17	- 52

18. Write the number sentences		
	a.	You bought this ship.

48¢

Now you have 19¢. How many cents did you have?

b. The pen and the writing pad together cost 93¢.



How much does the pen cost?

c. Tom jumps 17 inches longer than Sam. Sam's jump is 46 inches.

How long is Tom's jump?

d. Mom bought 3 dozen eggs. We ate 19 eggs.

How many eggs does she have left?

e. Jack has 18 stamps more than Fred. Jack has 72 stamps.

How many stamps does Fred have?

f. Which is more:

(80-58) or (62-37)?

PLACEMENT KEY B

Although some of the answers may seem quite obvious, we have included the answers to all of the Placement Test questions within the following table.

Level :	5	Level 6		Level 7	
Questi	on Answer	Questio	on Answer	Question	Answer
1a	Thirty-Seven	9a		14	8, 7, 2
1b	27	9b			1, 5, 9
1c	30	10	10, 14, 16		4, 3, 6
1d	9		11, 12, 12		4, 8, 8
2a	51		10, 15, 11		6, 7, 9
2b	4		11, 10, 12		4, 3, 5
2c	70		17, 11, 13		6, 7, 7
3a	57		11, 17, 15		5, 4, 2
3b			12, 10, 10		8, 8, 9
4a	55		11, 10, 11		6, 7, 5
4b	66		12, 14, 13		8, 9, 9
4c	99		15, 13, 14		8, 7, 6
4d	29		12, 10, 16		9, 9, 8
4e 4f	76 87		16, 10, 12		5, 6, 7 9, 3, 9
4g	78		15, 14, 10 13, 14, 11	15a	36
4g 4h	88		18, 13, 13	16a	62
4i	46	11a	30	16b	34
5a	28	12a	40	16c	27
5b	57	12b	50	16d	15
5c	55	12c	70	16e	45
5d	55	12d	60	16f	55
5e	36	12e	70	16g	13
5f	68	12f	30	16h	2
6a	34	12g	35	16i	14
6b		12h	65	17a	53
7a	37	12i	41	17b	38
7b	42	12j	50	17c	67
7c	14	12k	80	17d	41
7d	21	121	60	17e	34
7e	20	12m	75	17f	67
7f	32	12n	54	17g	85
7g	39	12o	83	17h	16
7h	93	12p	52	17i	64
7i	86	12q	64	17j	22
7j 7k	68 15	12r 12s	56 60	17k 17l	33 8
7k 7l	70	12s 13a	70	171 17m	19
8a	45 - 21 = 24	13b	30	17m 17n	25
8b	47 + 32 = 79	13c	80	17n 17o	14
8c	43 + 31 = 74	13d	90	17p	8
00	13 - 31 - 71	13e	34	18a	48 + 19 = 67
		13f	53	18b	93 - 75 = 18
		13g	62	18c	17 + 46 = 63
		13h	90	18d	36 - 19 = 17
		13i	78	18e	72 - 18 = 54
		13j	90	18f	62 - 37 = 25
		13k	41		
		131	63		

Mathematics Programs Associates (MPA),

a Long Island based family enterprise providing educational products and consulting services, exists today primarily due to the vision and determination of its founder, Dr. L. George Saad. During the early 1950's, Dr. Saad taught mathematics education at the University of Ain-shams in Cairo, Egypt. In 1954, with an innovative idea for self-induced learning, he matriculated as a doctoral candidate at the University of Birmingham in England. During the following three years, Dr. Saad devoted his research to the elementary and secondary students' understanding of basic mathematics and developed the methodology for a self-teaching mathematics program. In 1957, Dr. Saad received the Ph.D degree in mathematics education. He then returned to Cairo and, sponsored by the Egyptian government, began the development of a mathematics curriculum for implementation throughout the country's elementary school system. In 1959, samples of Dr. Saad's materials were pilot tested within the Cairo schools and, a few years later, his curriculum was being used throughout the country and in other Middle East nations. Due to his marked popularity in the Middle East, in 1969, Dr. Saad was invited to the United States as a visiting professor at the State University of New York, and in the same year, accepted a professorship at Long Island University. In 1970, with an inspiration to repeat his success, Dr. Saad immigrated his family to the United States and began working on the rudiments of a self-teaching mathematics workbook series. In 1974, he incorporated MPA in New York to design, develop, and distribute his work. Today, educators and students in the United States, and many other nations throughout the world, are benefiting from Dr. Saad's lifelong achievement...

> Developmental Mathematics: A Self-Teaching Program



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