

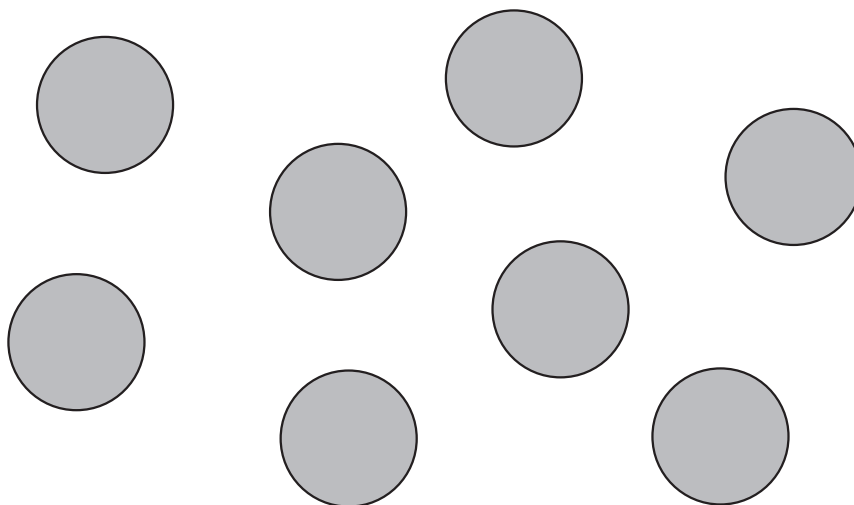
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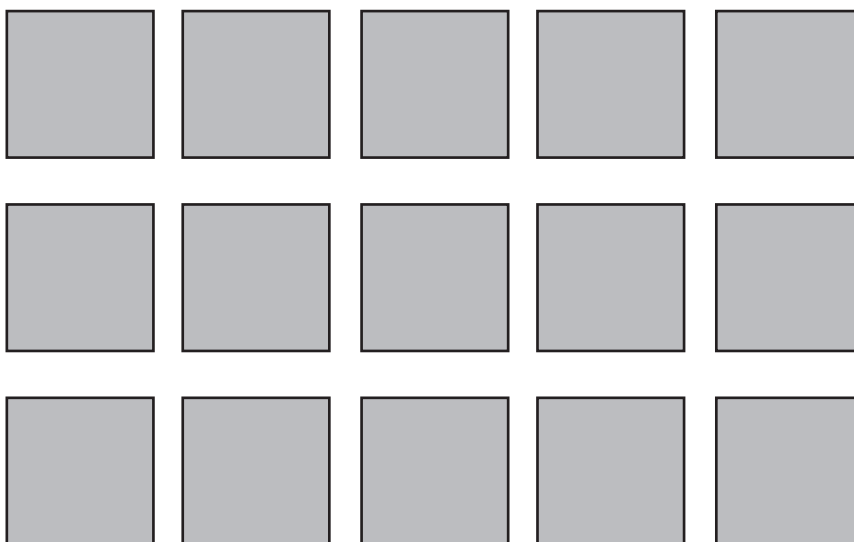
CBA Place Value

Student Sheet 1

1. How many circles are there? _____



2. How many squares are there? _____



Name _____

Date _____

CBA Place Value

Student Sheet 2

Hundred Chart

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
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

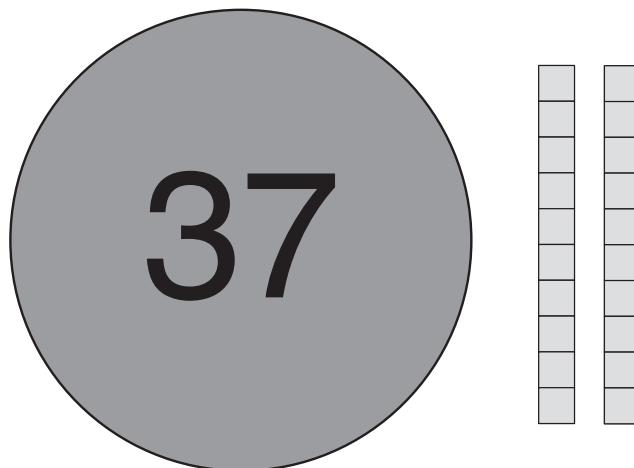
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Date _____

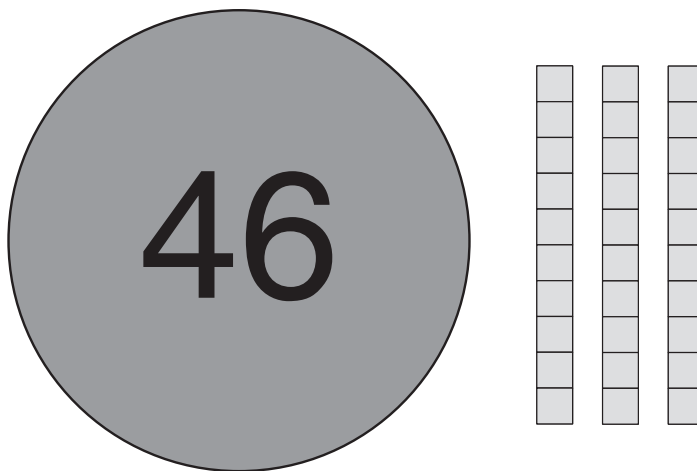
CBA Place Value

Student Sheet 3

1. There are 37 squares under the circle. How many squares are there altogether? Can you count by tens?



2. There are 46 squares under the circle. How many squares are there altogether? Can you count by tens?



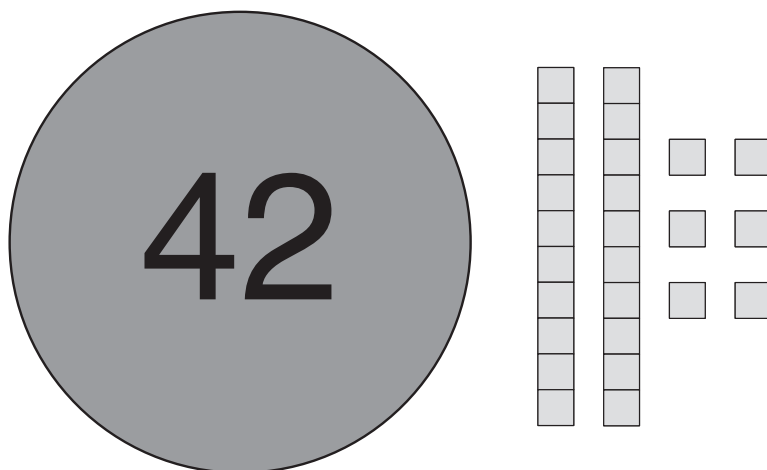
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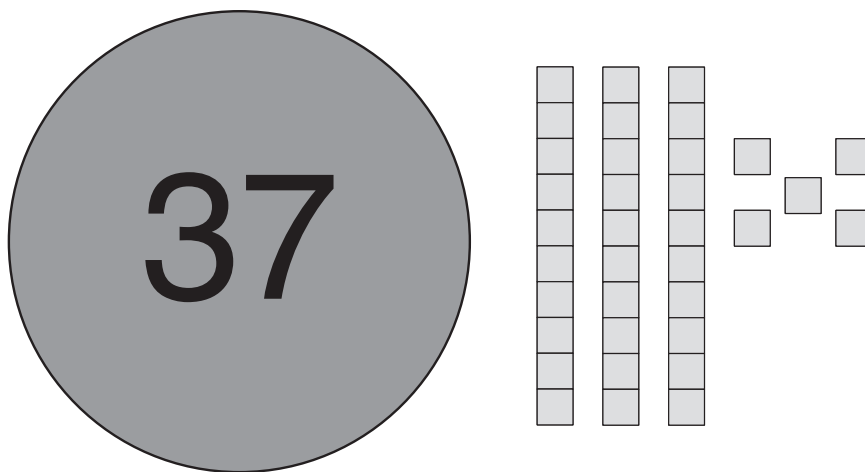
CBA Place Value

Student Sheet 4

1. There are 42 squares under the circle. How many squares are there altogether? Can you count by tens and ones?



2. There are 37 squares under the circle. How many squares are there altogether? Can you count by tens and ones?



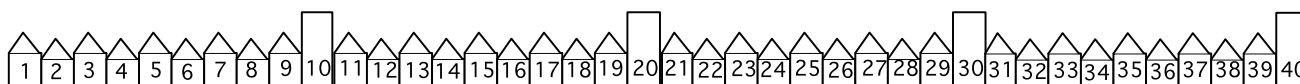
Name _____

Date _____

CBA Place Value

Student Sheet 5

Solve the problems. How can counting by tens help?



SET 1

- If I'm at house 3 and I go forward 10 houses, what house will I be at?
- If I'm at house 13 and I go forward 10 houses, what house will I be at?
- If I'm at house 23 and I go forward 10 houses, what house will I be at?
- If I'm at house 33 and I go forward 10 houses, what house will I be at?
- If I'm at house 43 and I go forward 10 houses, what house will I be at?
- If I'm at house 53 and I go forward 10 houses, what house will I be at?
- If I'm at house 83 and I go forward 10 houses, what house will I be at?

SET 2

- If I'm at house 17 and I go forward 10 houses, what house will I be at?
- If I'm at house 17 and I go forward 20 houses, what house will I be at?
- If I'm at house 17 and I go forward 30 houses, what house will I be at?
- If I'm at house 17 and I go forward 40 houses, what house will I be at?
- If I'm at house 17 and I go forward 70 houses, what house will I be at?

SET 3

- If I'm at house 43 and I go forward 25 houses, what house will I be at?
- If I'm at house 38 and I go forward 47 houses, what house will I be at?

Name _____

Date _____

CBA Place Value

Student Sheet 6

Solve the problems mentally, without counting.

1. $7 + 600 - 40 =$ _____

2. $(40 \text{ and } 12) - (20 \text{ and } 8) =$ _____

3. $30 + 7 =$ _____

4. $20 + 3 =$ _____

5. $36 - 6 =$ _____

6. $200 + 80 + 3 =$ _____

7. $4 + 500 + 80 + 3000 =$ _____

8. $1 + 600 + 30 + 9 =$ _____

9. $3 + 700 + 40 + 8 =$ _____

10. $200 + 80 + 30 + 6 =$ _____

11. $(60 \text{ and } 9) - (20 \text{ and } 3) =$ _____

12. $5 + 200 + 40 + 600 + 30 + 3 =$ _____

13. $110 + 220 + 8 =$ _____

Name _____

Date _____

CBA Place Value

Student Sheet 7

1. $40 + 6 =$ _____ tens and _____ ones.

2. 8 tens and 5 ones = _____ tens and 15 ones.

3. A number has 14 ones and 3 tens. What is the number?

4. (6 tens and 7 ones) + (3 tens and 2 ones) = _____ ones.

5. (5 tens + 6 ones) + (4 tens + 3 ones) = _____ ones.

6. (2 hundreds and 4 tens and 3 ones) + (7 hundreds and 2 tens and 4 ones) = _____ ones.

7. (4 hundreds + 5 tens + 3 ones) + (2 hundreds + 2 tens + 4 ones) = _____ ones.

Name _____

Date _____

CBA Place Value

Student Sheet 8

1. Think about the problem $25 \times 34 = \underline{\hspace{2cm}}$.

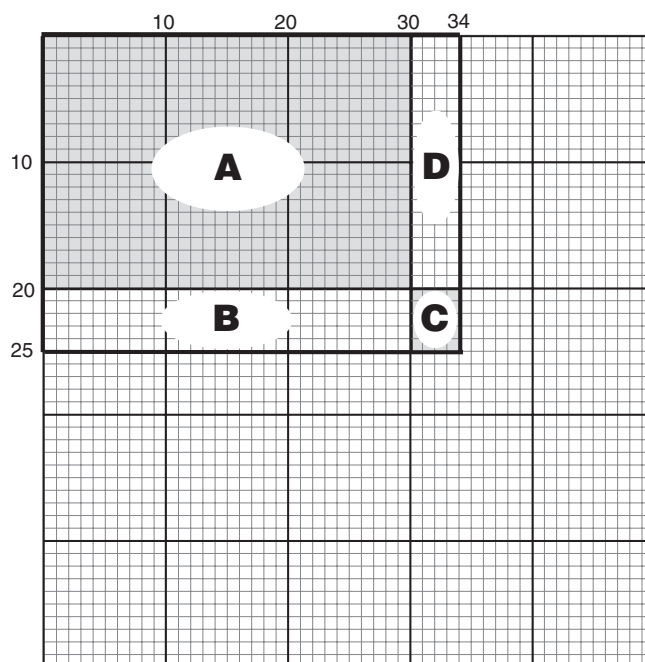
Write the letters of the rectangles that show each multiplication below.

$20 \times 30 = 600$

$20 \times 4 = 80$

$5 \times 30 = 150$

$5 \times 4 = 20$



Which products from above should be added to find the answer to 25×34 ?

600

80

150

20

Explain why your answer is correct.

2. Use graph paper to show and solve the following problems.

$46 \times 34 = \underline{\hspace{2cm}}$

$25 \times 57 = \underline{\hspace{2cm}}$

$46 \times 57 = \underline{\hspace{2cm}}$

Name _____

Date _____

CBA Place Value

Student Sheet 9

Use the Place-Value Chart for Whole Numbers to do the following problems. For each problem, write the name of the number, then give the values of digits in different places.

Place-Value Chart for Whole Numbers									
Periods	MILLIONS			THOUSANDS			ONES		
Value within Period	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
Place Value	hundred millions	ten millions	one millions	hundred thousands	ten thousands	one thousands	hundreds	tens	ones
Place-Value Number	100,000,000	10,000,000	1,000,000	100,000	10,000	1,000	100	10	1
Number									
Number									
Number									
Number									

Number: 52,357

Name: _____

Value of 2: _____

Value of 3: _____

Number: 52,357,889

Name: _____

Value of 2: _____

Value of 3: _____

Number: 600,789

Name: _____

Value of 6: _____

Value of 8: _____

Number: 423,578,900

Name: _____

Value of 2: _____

Value of 9: _____

Name _____

Date _____

CBA Place Value

Student Sheet 10

Use the Place-Value Chart for Numbers Less Than 1 to do the following problems. Write the name of the number, then give the values of digits in different places.

Place-Value Chart for Numbers Less Than 1								
Place Value	ones		tenths	hundredths	thousandths	ten-thousandths	hundred-thousandths	millionths
Place-Value Number	1		.1 = $\frac{1}{10}$	.01 = $\frac{1}{100}$	.001 = $\frac{1}{1000}$	.0001 = $\frac{1}{10000}$	.00001 = $\frac{1}{100000}$	.000001 = $\frac{1}{1000000}$
Number		.						
Number		.						
Number		.						
Number		.						

Number: .357

Name: _____

Value of 3: _____ Value of 7: _____

Number: .52357

Name: _____

Value of 2: _____ Value of 7: _____

Number: .0023

Name: _____

Value of 2: _____ Value of 3: _____

Number: .100006

Name: _____

Value of 1: _____ Value of 6: _____

Name _____

Date _____

CBA Place Value

Student Sheet 11

Predict an answer, then check it on a calculator by entering a number with 3 in the given place and multiplying by 10.

SET 1

1. A number has 3 in its *tens* place. When the number is multiplied by 10, what place is the 3 in?
Prediction _____ Check _____
2. A number has 3 in its *hundreds* place. When the number is multiplied by 10, what place is the 3 in?
Prediction _____ Check _____
3. A number has 3 in its *ones* place. When the number is multiplied by 10, what place is the 3 in?
Prediction _____ Check _____
4. A number has 3 in its *ten-thousands* place. When the number is multiplied by 10, what place is the 3 in?
Prediction _____ Check _____

Predict an answer, then check it on a calculator by entering a number with 6 in the given place and dividing by 10.

SET 2

1. A number has 6 in its *tens* place. When the number is divided by 10, what place is the 6 in?
Prediction _____ Check _____
2. A number has 6 in its *hundreds* place. When the number is divided by 10, what place is the 6 in?
Prediction _____ Check _____
3. A number has 6 in its *thousands* place. When the number is divided by 10, what place is the 6 in?
Prediction _____ Check _____
4. A number has 6 in its *ten-thousands* place. When the number is divided by 10, what place is the 6 in?
Prediction _____ Check _____

SET 3

Predict an answer, then check it on a calculator.

1. A number has 3 in its *tens* place. When the number is multiplied by 100, what place is the 3 in?
Prediction _____ Check _____
2. A number has 6 in its *ten-thousands* place. When the number is divided by 100, what place is the 6 in?
Prediction _____ Check _____

Name _____

Date _____

CBA Place Value

Student Sheet 12

Predict an answer then check it on a calculator by entering a number with 3 in the given place then multiplying by 10.

SET 1

1. A number has 3 in its *tenths* place. When the number is multiplied by 10, what place is the 3 in?
Prediction _____ Check _____
2. A number has 3 in its *hundredths* place. When the number is multiplied by 10, what place is the 3 in?
Prediction _____ Check _____
3. A number has 3 in its *ten-thousandths* place. When the number is multiplied by 10, what place is the 3 in?
Prediction _____ Check _____

Predict an answer, then check it on a calculator by entering a number with 6 in the given place and dividing by 10.

SET 2

1. A number has 6 in its *tenths* place. When the number is divided by 10, what place is the 6 in?
Prediction _____ Check _____
2. A number has 6 in its *hundredths* place. When the number is divided by 10, what place is the 6 in?
Prediction _____ Check _____
3. A number has 6 in its *thousandths* place. When the number is divided by 10, what place is the 6 in?
Prediction _____ Check _____

Predict an answer, then check it on a calculator.

SET 3

1. A number has 3 in its *hundredths* place. When the number is multiplied by 100, what place is the 3 in?
Prediction _____ Check _____
2. A number has 3 in its *thousandths* place. When the number is multiplied by 100, what place is the 3 in?
Prediction _____ Check _____
3. A number has 6 in its *ten-thousandths* place. When the number is divided by 100, what place is the 6 in?
Prediction _____ Check _____

CBA Place Value

Student Sheet Answers

Although answers are provided for CBA student sheets, when assessing students' work on the sheets, it is essential to determine the CBA levels of reasoning students use.

STUDENT SHEET 1

1. 8 circles
2. 15 squares

STUDENT SHEET 3

1. 47, 57 squares
2. 56, 66, 76 squares

STUDENT SHEET 4

1. 52, 62, 63, 64, 65, 66, 67, 68 squares
2. 47, 57, 67, 68, 69, 70, 71, 72 squares

STUDENT SHEET 5

- Set 1: 13; 23; 33; 43; 53; 63; 93
- Set 2: 27; 37; 47; 57; 87
- Set 3: 53, 63, 64, 65, 66, 67, 68
48, 58, 68, 78, 79, 80, 81, 82, 83,
84, 85

STUDENT SHEET 6

1. 647
2. 24
3. 37
4. 23
5. 30
6. 283
7. 3584
8. 640
9. 751
10. 316

11. 46

12. 878

13. 338

STUDENT SHEET 7

1. 4; 6
2. 7
3. 44
4. 99
5. 99
6. 967
7. 677

STUDENT SHEET 8

1. A; D; B; C.

All products should be added because they represent the four partial products of the multiplication.

2. $46 \times 34 = 1564$
 $25 \times 57 = 1425$
 $46 \times 57 = 2622$

STUDENT SHEET 9

For 52,357:

Name: fifty-two thousand, three hundred fifty-seven

Value of 2: 2000

Value of 3: 300

For 52,357,889:

Name: fifty-two million, three hundred fifty-seven thousand, eight hundred eighty-nine

Value of 2: 2,000,000

Value of 3: 300,000