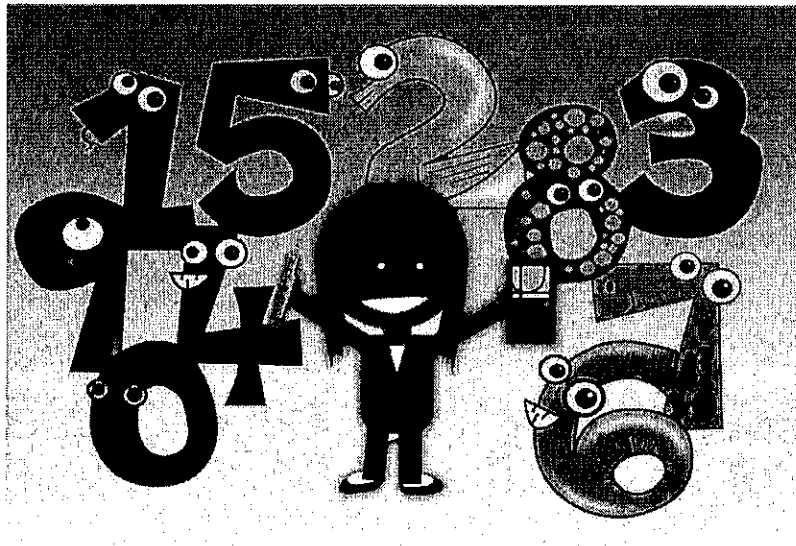
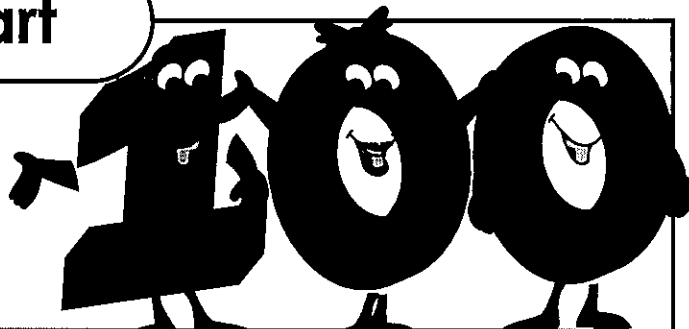


Math Activities Grade 1



Name: _____

100 Chart

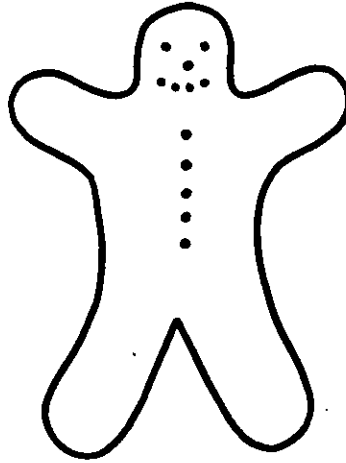


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Cookie Kids

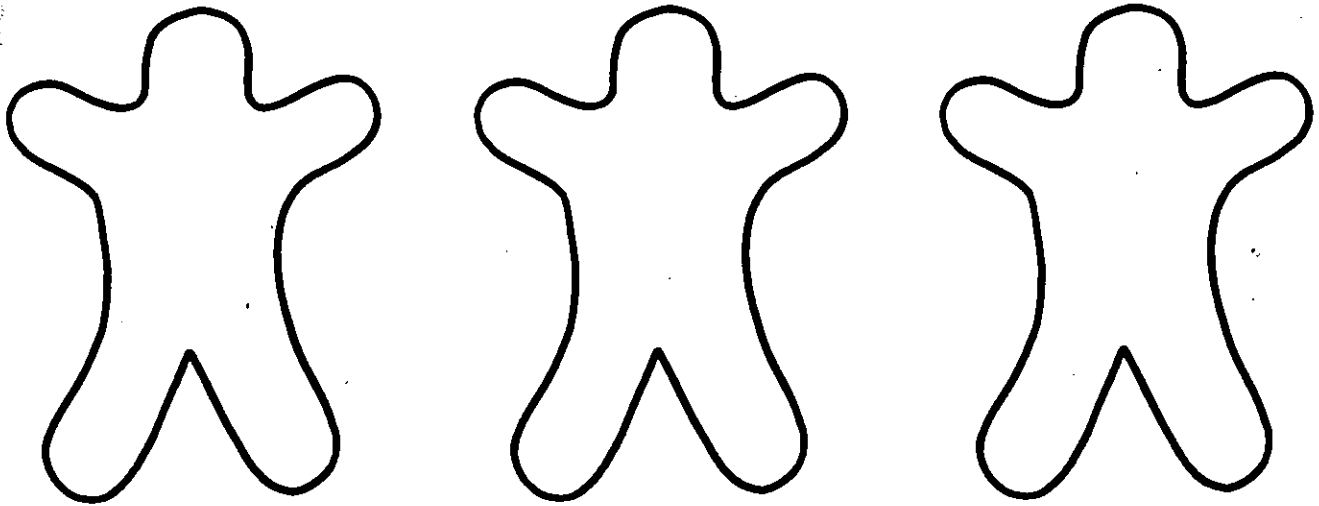
1

- ☉ Carl's eyes are raisins.
- ☉ Carl's nose is a raisin.
- ☉ Carl's mouth is made of raisins.
- ☉ Carl's buttons are raisins.



Carl

1. Draw raisins on the 3 cookie kids. Make them just like Carl.



Tell how many raisins you drew in all for each part.

2. eyes _____

3. noses _____

4. mouths _____

5. buttons _____

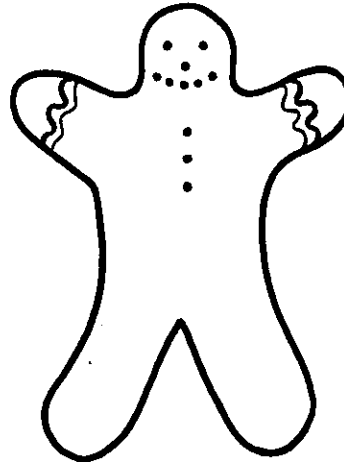
Cookie Kids 2

The eyes are raisins.

The nose is a raisin.

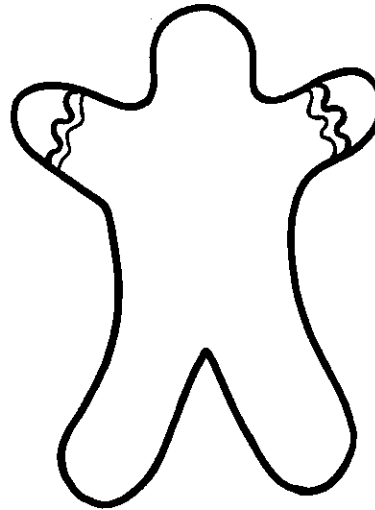
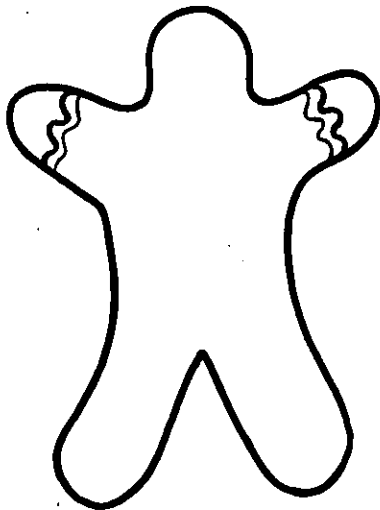
The mouth is made of raisins.

The buttons are raisins.



Carrie

1. Draw raisins on the 2 cookie kids. Make them just like Carrie.



Tell how many raisins you drew in all for each part.

2. eyes _____

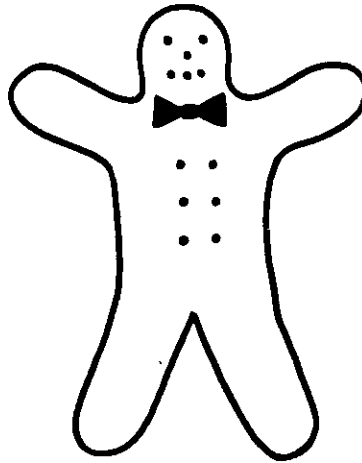
3. noses _____

4. mouths _____

5. buttons _____

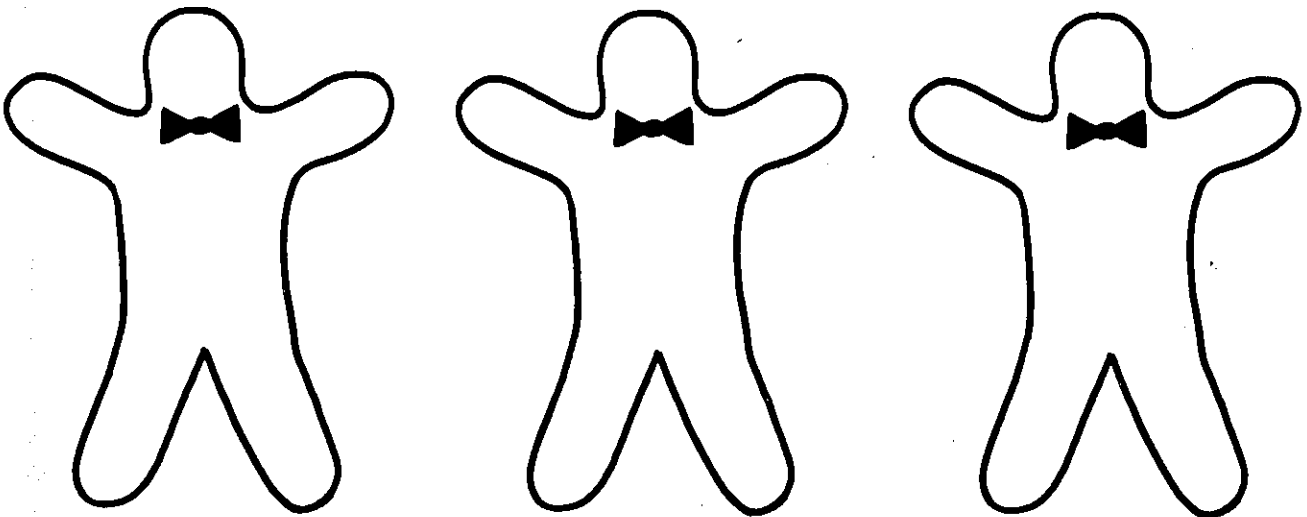
Cookie Kids 3

- The eyes are raisins.
- The nose is a raisin.
- The mouth is made of raisins.
- The buttons are raisins.



Kareem

1. Draw raisins on the 3 cookie kids. Make them just like Kareem.



Tell how many raisins you drew in all for each part.

2. eyes _____

3. noses _____

4. mouths _____

5. buttons _____

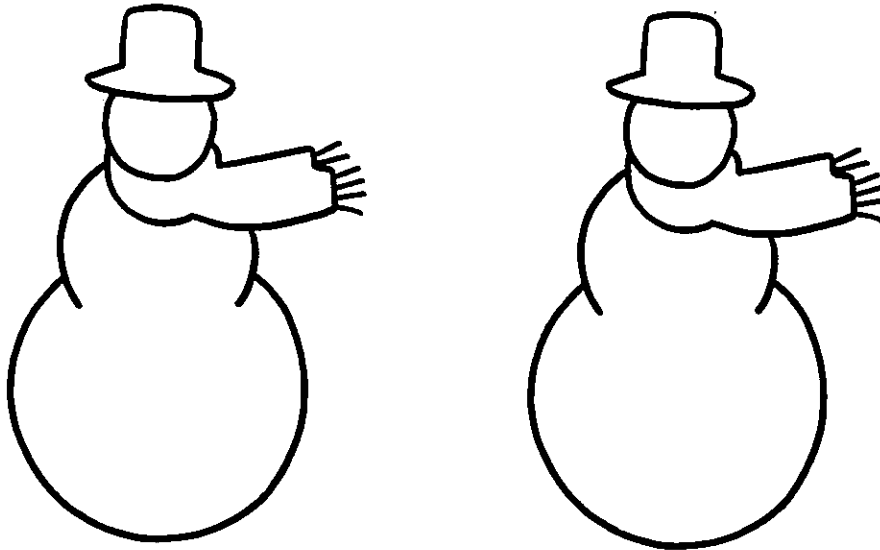
Cookie Kids 4

The decorations are raisins.



Steve

1. Draw raisins on the 2 snowmen. Make them just like Steve.



Tell how many raisins you drew in all for each part.

2. eyes _____

3. mouths _____

4. hats _____

5. buttons _____

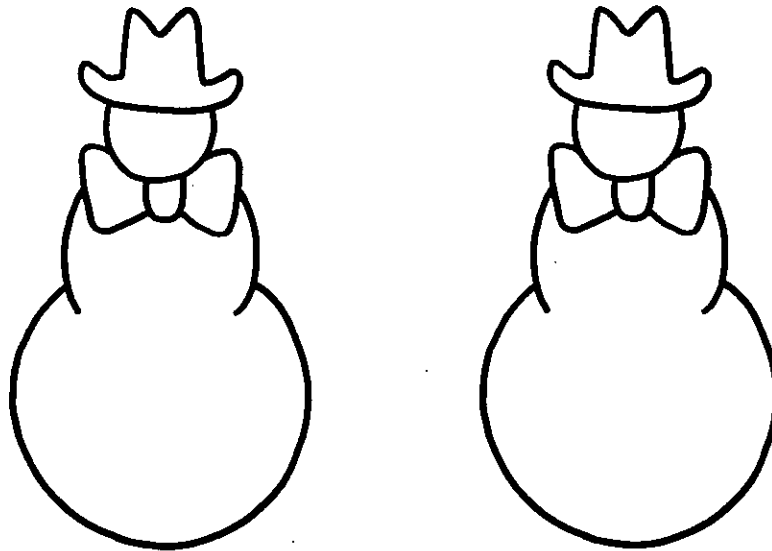
Cookie Kids 5

The decorations are raisins.



Stu

1. Draw raisins on the 2 snowmen. Make them just like Stu.



Tell how many raisins you drew in all for each part.

2. noses _____

3. hats _____

4. buttons _____

5. eyes _____

Cookie Kids

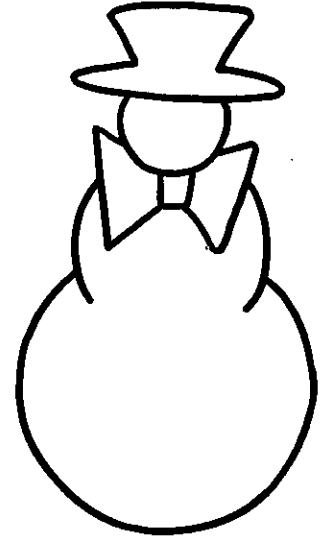
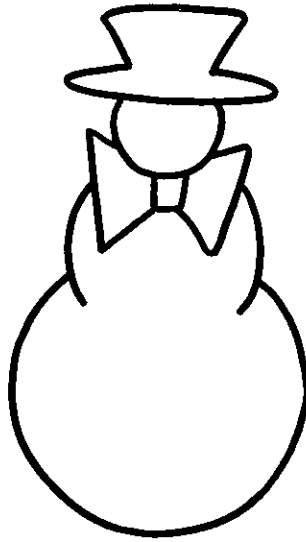
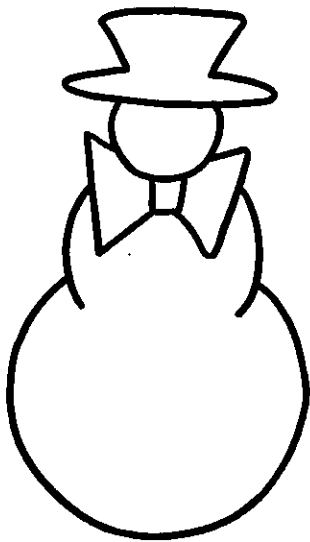
6

The decorations are raisins.



Scott

Draw raisins on the 3 snowmen. Make them just like Scott.



Tell how many raisins you drew in all for each part.

2. mouths _____

3. bow ties _____

4. hats _____

5. buttons _____

Solutions

Cookie Kids 1

1. Three drawings that each show the same number of raisins for eyes, nose, mouth, and buttons as in the picture.
2. 6
3. 3
4. 12
5. 15

Cookie Kids 2

1. Two drawings that each show the same number of raisins as in the picture.
2. 4
3. 2
4. 10
5. 6

Cookie Kids 3

1. Three drawings that each show the same number of raisins as in the picture.
2. 6
3. 3
4. 9
5. 18

Cookie Kids 4

1. Two drawings that each show the same number of raisins as in the picture.
2. 4
3. 6
4. 12
5. 16

Cookie Kids 5

1. Two drawings that each show the same number of raisins as in the picture.
2. 2
3. 8
4. 20
5. 4

Cookie Kids 6

1. Three drawings that each show the same number of raisins as in the picture.
2. 12
3. 9
4. 18
5. 30

Grid Sums

1

All \triangle are the same number.

Numbers in \bigcirc are sums.

Add across.

Add down.

\square	\triangle	$\bigcirc 9$
2	\triangle	$\bigcirc 8$
$\bigcirc 5$	$\bigcirc 12$	

1. What number is \square ? _____

2. What number is \triangle ? _____

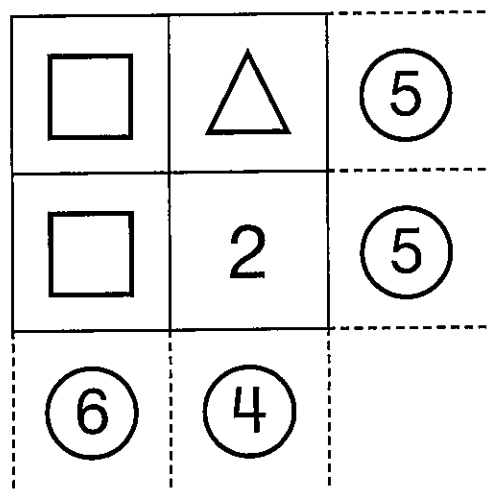
Grid Sums 2

All are the same number.

Numbers in  are sums.

Add across.

Add down.



1. What number is ? _____

2. What number is ? _____

Grid Sums 3

All \triangle are the same number.

Numbers in \bigcirc are sums.

Add across.

Add down.

\square	3	$\bigcirc 8$
\triangle	\triangle	$\bigcirc 2$
$\bigcirc 6$	$\bigcirc 4$	

1. What number is \square ? _____

2. What number is \triangle ? _____

Grid Sums

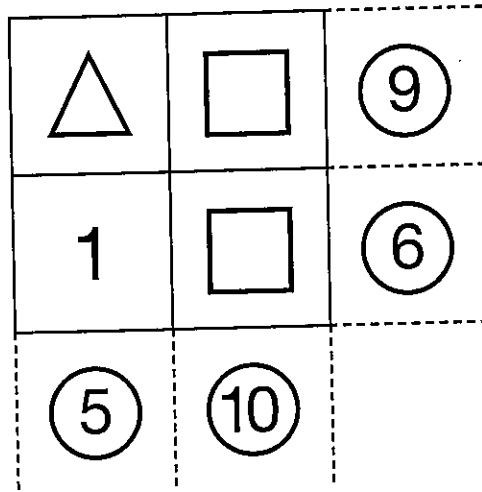
4

All  are the same number.

Numbers in  are sums.

Add across.

Add down.



1. What number is ? _____

2. What number is ? _____

Grid Sums

5

All \triangle are the same number.

Numbers in \bigcirc are sums.

Add across.

Add down.

4	\square	\bigcirc 11
\triangle	\triangle	\bigcirc 4
\bigcirc 6	\bigcirc 9	

1. What number is \square ? _____

2. What number is \triangle ? _____

Grid Sums

6

All \triangle are the same number.

Numbers in \bigcirc are sums.

Add across.

Add down.

9	\square	$\bigcirc 15$
\triangle	\triangle	$\bigcirc 16$
$\bigcirc 17$	$\bigcirc 14$	

1. What number is \square ? _____

2. What number is \triangle ? _____

Solutions

Grid Sums 1

- 3
- 6

Grid Sums 2

- 3
- 2

Grid Sums 3

- 5
- 1

Grid Sums 4

- 5
- 4

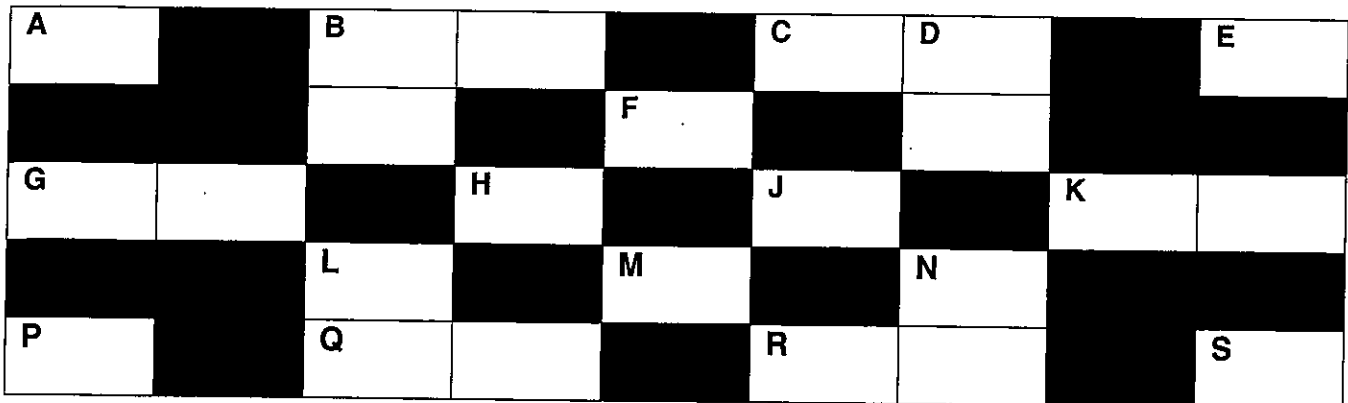
Grid Sums 5

- 7
- 2

Grid Sums 6

- 6
- 8

CROSS-NUMBER PUZZLE 41



Cross-Number Discovery Puzzles 1 - © Cella Baron 2013

ACROSS:

A. $5 + \square = 7$

M. $6 - 3 = \square$

B. The first number in the chain



P. There were 8 stars. Now there are

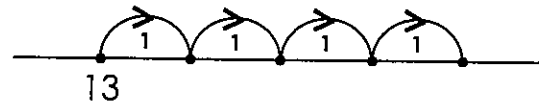


How many were taken away?

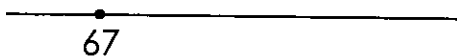
C. The first number in the chain



Q. The number reached on the last hop

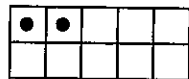


E. The number of hops from 67 to 70



R. $13 + 4 = \square$

F. The number of dots needed to fill the ten-frame



S. There are 5 circles and 2 triangles. How many circles do not have a partner?

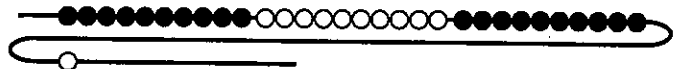
DOWN:

B. The number of holes on the buttons



D. The number that is 3 more than seventy-eight

L. The number of beads



N. The number before 98

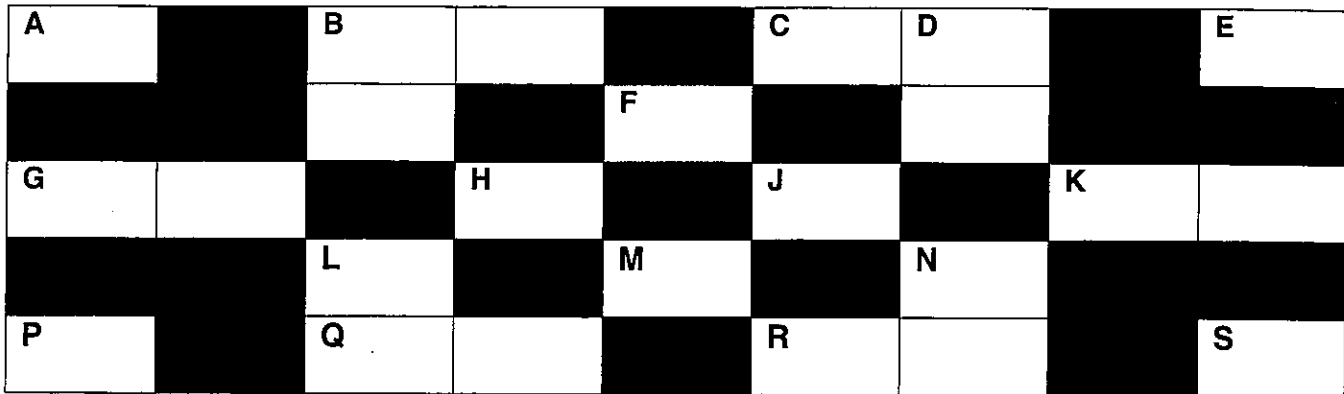
G. Choose the least number:
70, 76, 67, 60

H. Share 4 pencils fairly between 2 friends. How many does each friend get?

J. Which number is even,
4 or 5?

K. The number that is 2 less than 59

CROSS-NUMBER PUZZLE 42



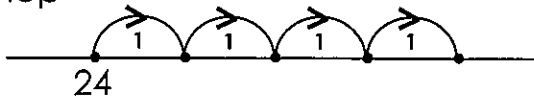
Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

A. The number of dots needed to fill the ten-frame



B. The number reached on the last hop



C. $24 + 4 = \square$

E. There are 5 circles and 1 triangle. How many circles do not have a partner?

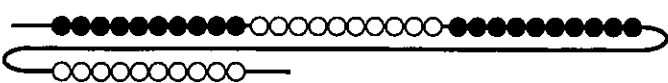
F. $7 + \square = 9$

G. The number before sixty-one

H. $8 - 4 = \square$

J. There were 10 stars. Now there are
★ ★ ★ ★ ★ ★ ★
 How many were taken away?

K. The number of beads



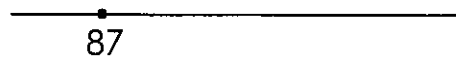
M. Share 6 pencils fairly between 2 friends. How many does each friend get?

P. Which number is even, 6 or 7?

Q. Choose the least number: 100, 70, 40, 10

R. The number that is 2 less than 86

S. The number of hops from 87 to 90



DOWN:

B. The first number in the chain



D. The first number in the chain

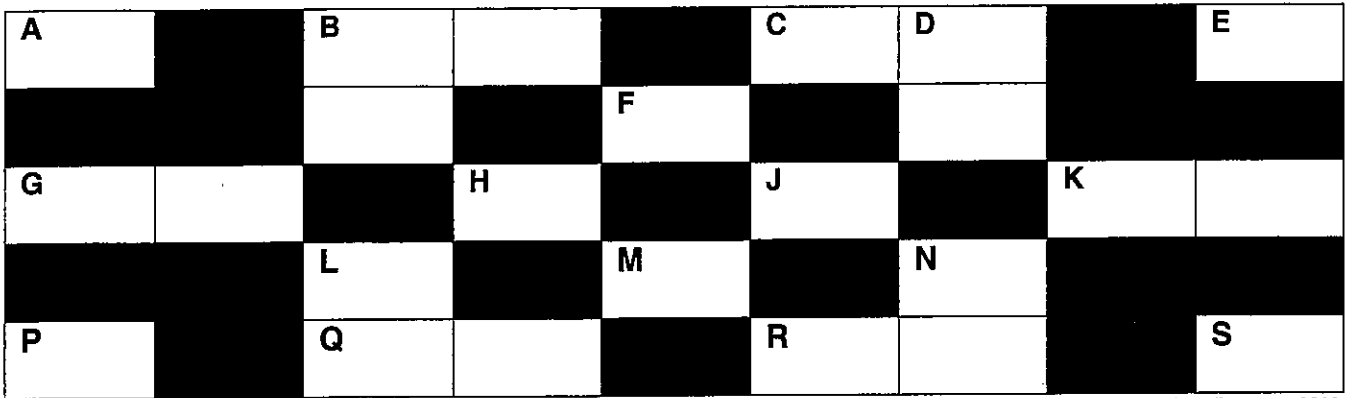


L. The number that is 3 more than 68

N. The number of holes on the buttons



CROSS-NUMBER PUZZLE 43



Cross-Number Discovery Puzzles 1 - © Cella Baron 2013

ACROSS:

A. $9 - 4 = \square$

B. The first number in the chain

C. The first number in the chain

E. Share 8 pencils fairly between 2 friends. How many does each friend get?

F. Which number is even, 7 or 8?

G. The number that is 3 less than 89

H. $4 + \square = 7$

J. The number of hops from 58 to 62



K. The number of holes on the buttons

M. The number of dots needed to fill the ten-frame

P. There were 11 stars. Now there are

★ ★ ★ ★ ★ ★ ★ ★ ★

How many were taken away?

Q. The number reached on the last hop

R. $25 + 4 = \square$

S. There are 5 circles and 4 triangles. How many circles do not have a partner?

DOWN:

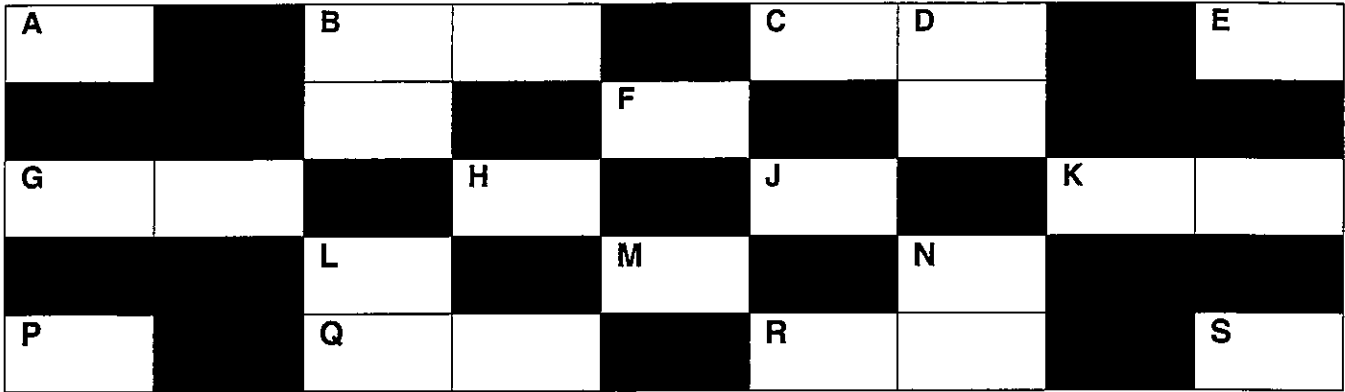
B. Choose the greatest number: 31, 10, 13, 30

D. The number before seventy-one

L. The number that is 3 more than 59

N. The number of beads

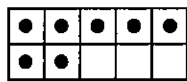
CROSS-NUMBER PUZZLE 44



Cross-Number Discovery Puzzles 1 - © Cella Baron 2013

ACROSS:

A. The number of dots needed to fill the ten-frame

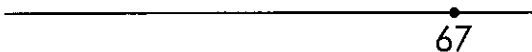


B. The number before 81

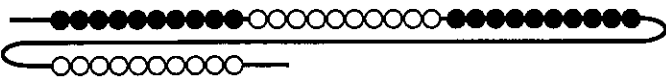
C. Choose the least number:
53, 91, 76, 84

E. There were 10 stars. Now there are
★ ★ ★ ★ ★ ★ ★ ★ ★ ★
How many were taken away?

F. The number of hops from 67 to 63



G. The number of beads



H. Share 8 pencils fairly between 2 friends. How many does each friend get?

J. Which number is even,
8 or 7?

K. The number after eighty-nine

M. There are 5 circles and 1 triangle. How many circles do not have a partner?

P. $7 - 4 = \square$

Q. The first number in the chain



R. The first number in the chain

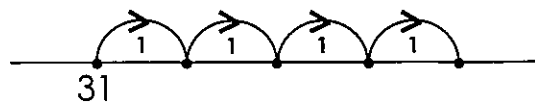


S. $6 + \square = 9$

DOWN:

B. The number that is 3 less than 89

D. The number reached on the last hop

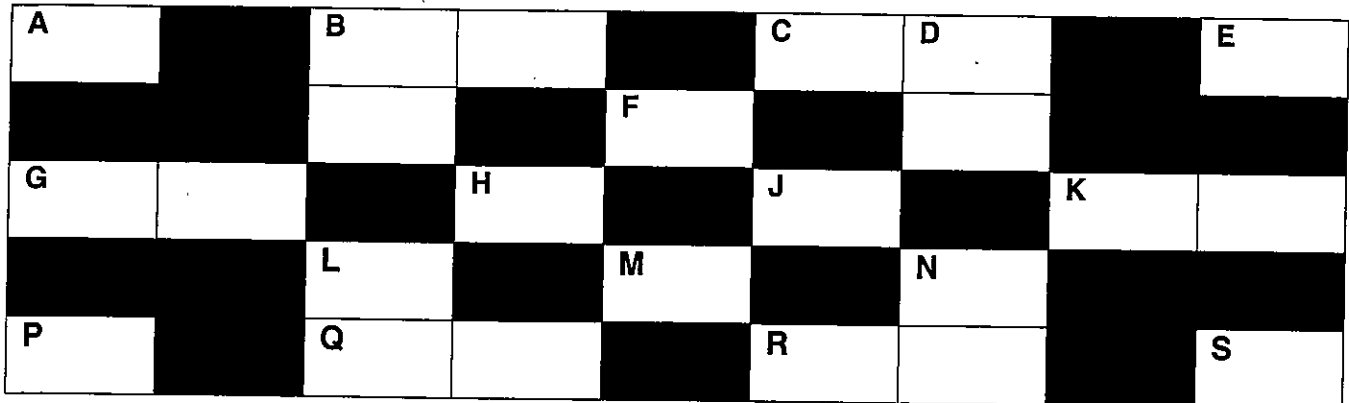


L. $31 + 4 = \square$

N. The number of holes on the buttons



CROSS-NUMBER PUZZLE 45

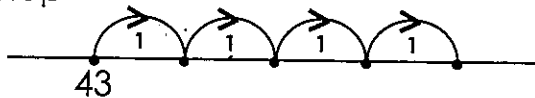


Cross-Number Discovery Puzzles 1 - © Cella Baron 2013

ACROSS:

A. $5 + \square = 8$

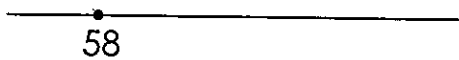
B. The number reached on the last hop



C. $43 + 4 = \square$

E. $9 - 4 = \square$

F. The number of hops from 58 to 61



G. The number of holes on the buttons



H. There are 5 circles and 3 triangles. How many circles do not have a partner?

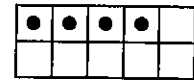
J. The first number in the chain



K. The first number in the chain



M. The number of dots needed to fill the ten-frame



P. Share 10 pencils fairly between 2 friends. How many does each friend get?

Q. Which number is even, 9 or 10?

R. The number after 79

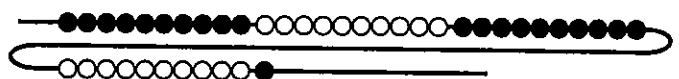
S. There were 11 stars. Now there are
 ★ ★ ★ ★ ★ ★ ★ ★ ★
 How many were taken away?

DOWN:

B. The number that is 3 less than 49

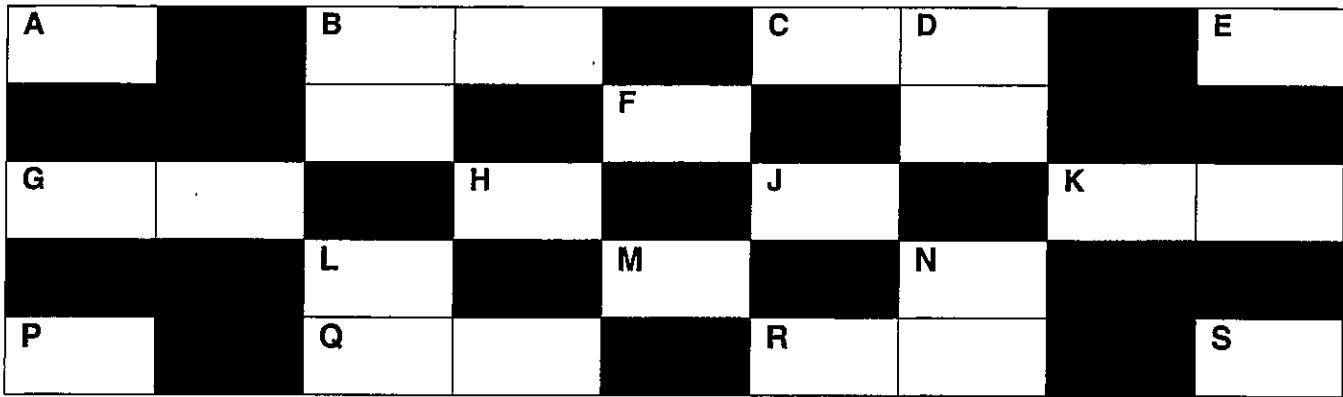
D. The number that is 3 more than sixty-eight

L. The number of beads



N. Choose the least number:
 61, 50, 60, 59

CROSS-NUMBER PUZZLE 46

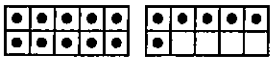


Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

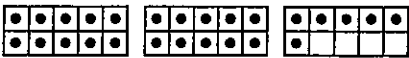
ACROSS:

A. $6 + \square = 9$

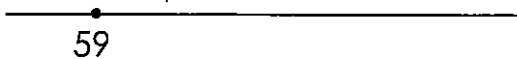
B. The number the ten-frames show



C. The number the ten-frames show



E. The number of hops from 59 to 61



F. There were 12 stars. Now there are



How many were taken away?

G. The number of holes on the buttons



H. How many numbers are even?

2, 4, 6, 8

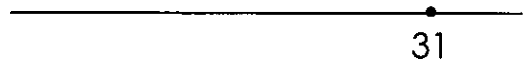
J. How many numbers are even?

12, 14, 16, 18

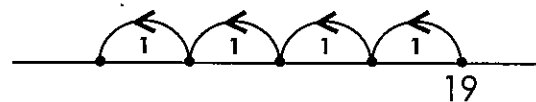
K. $33 + 4 = \square$

M. There are 6 circles and 4 triangles. How many circles do not have a partner?

P. The number of hops from 31 to 28

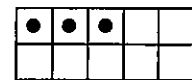


Q. The number reached on the last hop



R. $19 - 4 = \square$

S. The number of dots needed to fill the ten-frame



DOWN:

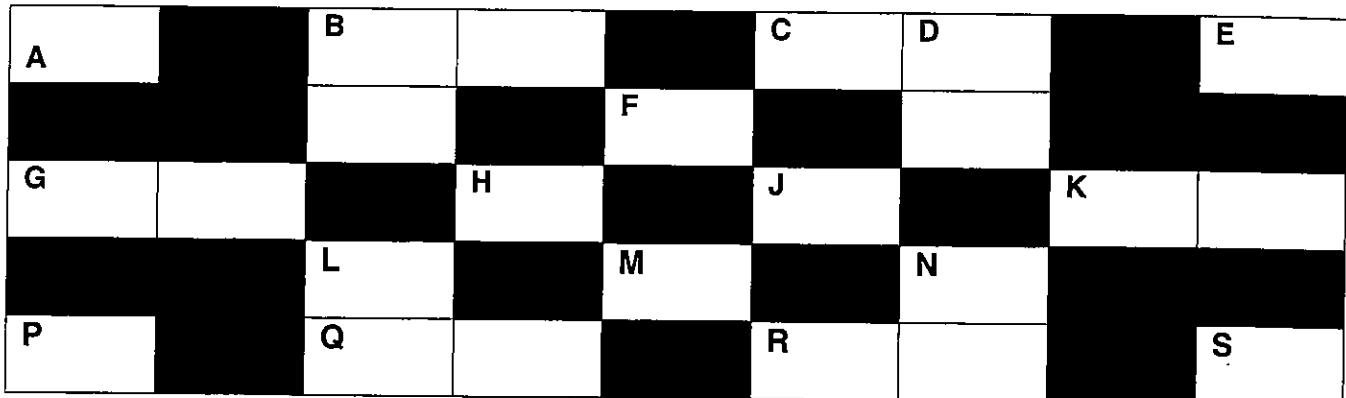
B. The number that is 3 less than twenty-two

D. Choose the greatest number:
55, 60, 65, 50

L. The number that is 3 more than 78

N. The number before 96

CROSS-NUMBER PUZZLE 47



Cross-Number Discovery Puzzles 1 - © Cella Baron 2013

ACROSS:

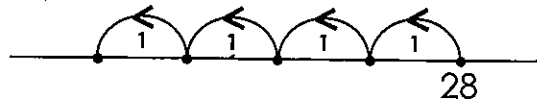
A. The number of dots needed to fill the ten-frame



M. The number of hops from 78 to 81



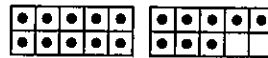
B. The number reached on the last hop



P. There were 11 stars. Now there are
★ ★ ★ ★ ★ ★ ★
How many were taken away?

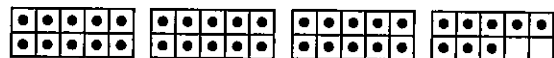
C. $28 - 4 = \square$

Q. The number the ten-frames show



E. There are 6 circles and 3 triangles. How many circles do not have a partner?

R. The number the ten-frames show



F. $7 + \square = 9$

S. The number of hops from 60 to 57



G. The number of holes on the buttons



DOWN:

H. How many numbers are even?
3, 4, 5, 6

B. The number that is 3 less than 32

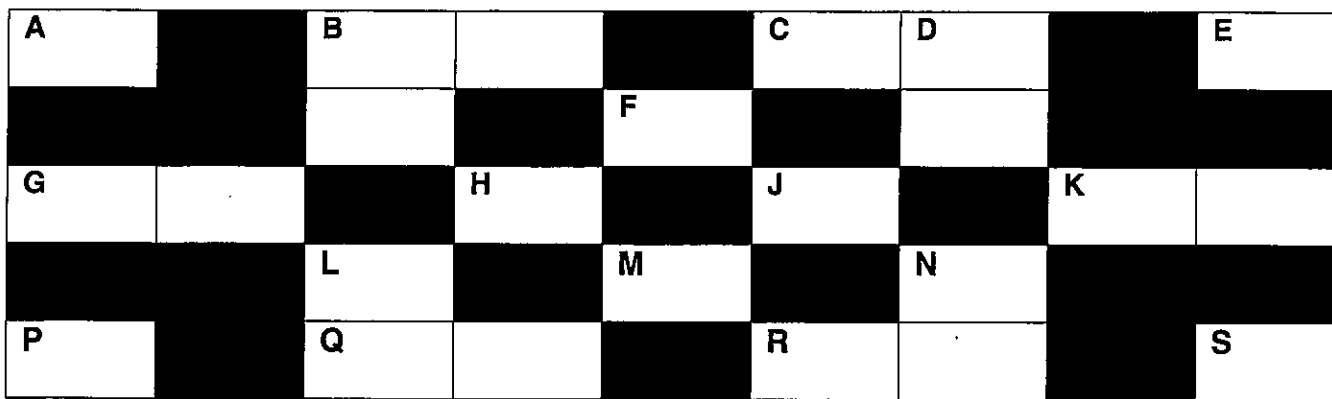
D. $45 + 4 = \square$

L. The number that is 3 more than sixty-eight

N. Choose the least number:
67, 85, 76, 58

K. The number before 60

CROSS-NUMBER PUZZLE 48



Cross-Number Discovery Puzzles 1 - © Cella Baron 2013

ACROSS:

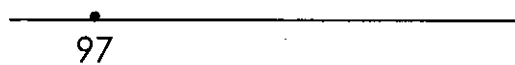
A. There were 13 stars. Now there are



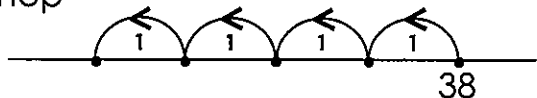
How many were taken away?

M. $4 + \square = 8$

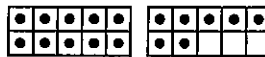
P. The number of hops from 97 to 100



B. The number reached on the last hop

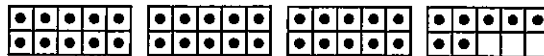


Q. The number the ten-frames show



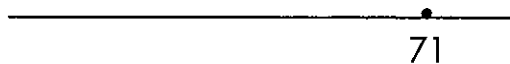
C. $38 - 4 = \square$

R. The number the ten-frames show

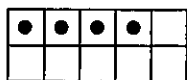


E. There are 6 circles and 1 triangle.
How many circles do not have a partner?

S. The number of hops from 71 to 67



F. The number of dots needed to fill the ten-frame



DOWN:

B. The number before 40

D. Choose the greatest number:

42, 34, 43, 24

L. The number that is 2 more than seventy-nine

G. The number of holes on the buttons



H. How many numbers are even?

1, 2, 3, 4

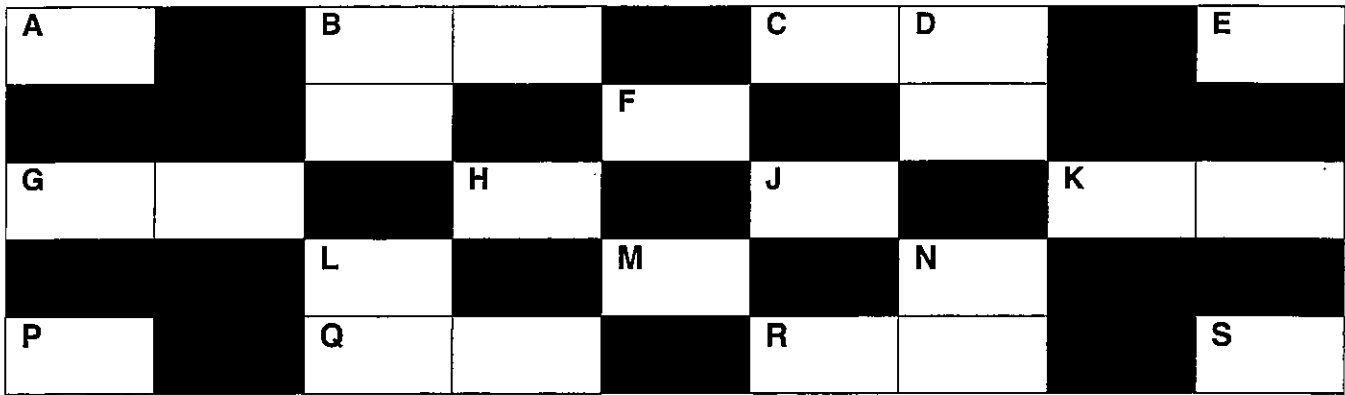
J. How many numbers are even?

11, 12, 13, 14

K. The number before 100

N. $53 + 4 = \square$

CROSS-NUMBER PUZZLE 49



Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

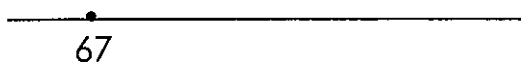
A. The number of dots needed to fill the ten-frame



B. $61 + 4 = \square$

C. The number that is 3 more than 89

E. The number of hops from 67 to 70



F. There are 7 circles and 5 triangles. How many circles do not have a partner?

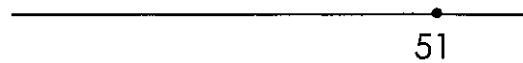
G. The number of holes on the buttons



H. How many numbers are even?
7, 8, 9, 10

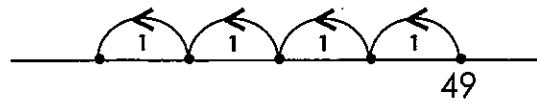
J. How many numbers are even?
17, 18, 19, 20

M. The number of hops from 51 to 49



P. There were 12 stars. Now there are
★ ★ ★ ★ ★ ★ ★ ★ ★ ★
How many were taken away?

Q. The number reached on the last hop



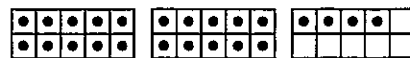
R. $49 - 4 = \square$

S. $3 + \square = 7$

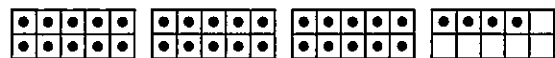
DOWN:

B. Choose the least number:
78, 68, 87, 86

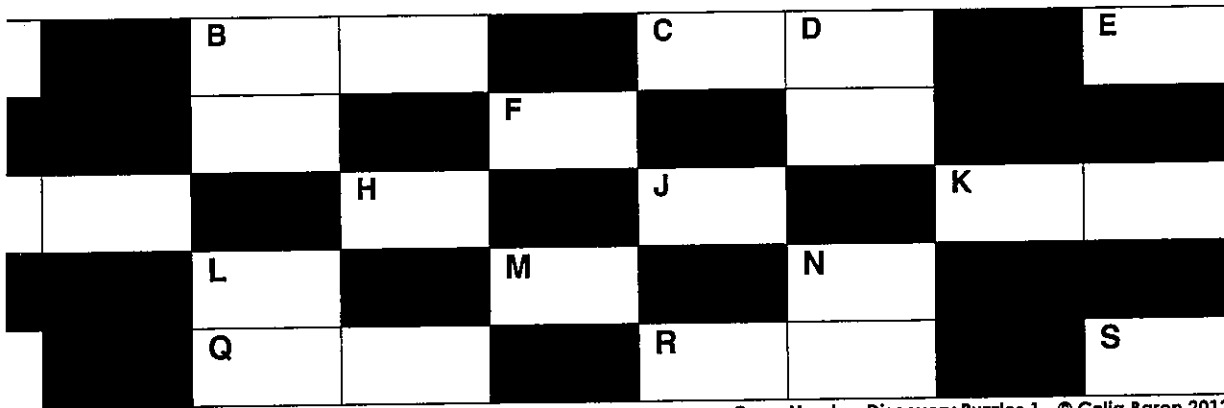
D. The number the ten-frames show



L. The number the ten-frames show



CROSS-NUMBER PUZZLE 50



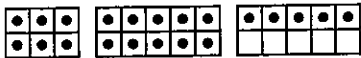
Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

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ath
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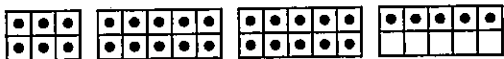
DOWN:

$\square - \square = 9$

3 number the ten-frames show



3 number the ten-frames show

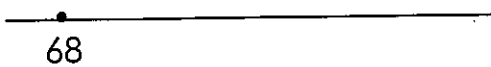


are 12 pencils fairly between friends. How many does each get?

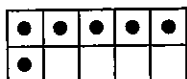
are were 12 stars. Now there are
 ★ ★ ★ ★ ★ ★ ★ ★ ★
 how many were taken away?

$\square + 4 = \square$

3 number of hops from 68 to 71



3 number of dots needed to fill the ten-frame



3 number a number that is 3 less than 100

M. There are 7 circles and 4 triangles. How many circles do not have a partner?

P. The number of hops from 82 to 78



Q. The number of holes on the buttons



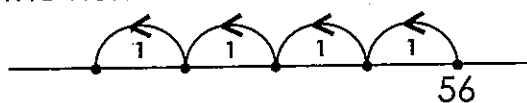
R. How many numbers are even?
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20

S. How many numbers are even?
 1, 3, 5, 7, 9, 11, 13, 15, 17, 19

DOWN:

B. Choose the greatest number:
 29, 19, 21, 20

D. The number reached on the last hop



L. $56 - 4 = \square$

N. The number that is 3 more than eighty-seven

CROSS-NUMBER PUZZLE 41

A 2		B 1	8		C 4	D 8		E 3
		0		F 8		1		
G 6	0		H 2		J 4		K 5	7
		L 3		M 3		N 9		
P 2		Q 1	7		R 1	7		S 3

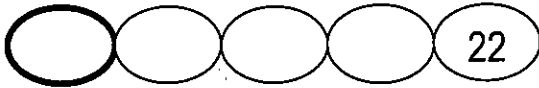
Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

A. $5 + \square = 7$

M. $6 - 3 = \square$

B. The first number in the chain



P. There were 8 stars. Now there are

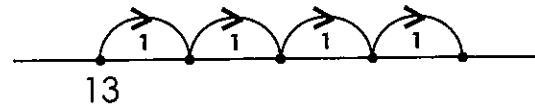


How many were taken away?

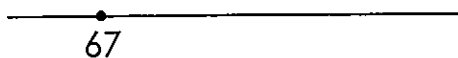
C. The first number in the chain



Q. The number reached on the last hop

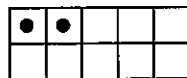


E. The number of hops from 67 to 70



R. $13 + 4 = \square$

F. The number of dots needed to fill the ten-frame



S. There are 5 circles and 2 triangles. How many circles do not have a partner?

G. Choose the least number:
70, 76, 67, 60

DOWN:

H. Share 4 pencils fairly between 2 friends. How many does each friend get?

B. The number of holes on the buttons

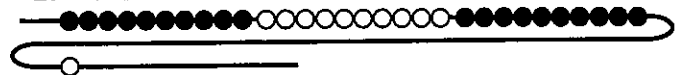


J. Which number is even, 4 or 5?

D. The number that is 3 more than seventy-eight

K. The number that is 2 less than 59

L. The number of beads



N. The number before 98

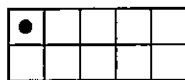
CROSS-NUMBER PUZZLE 42

A 9		B 2	8		C 2	D 8		E 4
		9		F 2		9		
G 6	0		H 4		J 3		K 4	0
		L 7		M 3		N 1		
P 6		Q 1	0		R 8	4		S 3

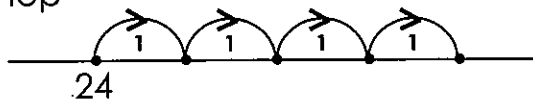
Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

A. The number of dots needed to fill the ten-frame



B. The number reached on the last hop



C. $24 + 4 = \square$

E. There are 5 circles and 1 triangle. How many circles do not have a partner?

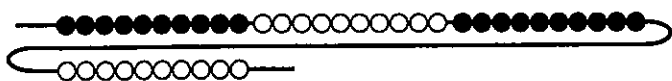
F. $7 + \square = 9$

G. The number before sixty-one

H. $8 - 4 = \square$

J. There were 10 stars. Now there are
★ ★ ★ ★ ★ ★ ★
 How many were taken away?

K. The number of beads



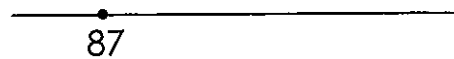
M. Share 6 pencils fairly between 2 friends. How many does each friend get?

P. Which number is even, 6 or 7?

Q. Choose the least number: 100, 70, 40, 10

R. The number that is 2 less than 86

S. The number of hops from 87 to 90



DOWN:

B. The first number in the chain



D. The first number in the chain



L. The number that is 3 more than 68

N. The number of holes on the buttons



CROSS-NUMBER PUZZLE 43

A 5		B 3	7		C 6	D 7		E 4
		1		F 8		0		
G 8	6		H 3		J 4		K 1	6
		L 6		M 7		N 3		
P 2		Q 2	9		R 2	9		S 1

Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

A. $9 - 4 = \square$

B. The first number in the chain



C. The first number in the chain



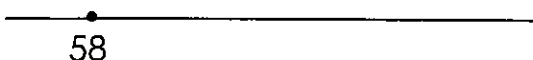
E. Share 8 pencils fairly between 2 friends. How many does each friend get?

F. Which number is even, 7 or 8?

G. The number that is 3 less than 89

H. $4 + \square = 7$

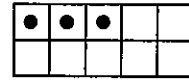
J. The number of hops from 58 to 62



K. The number of holes on the buttons

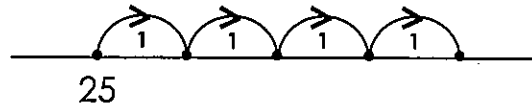


M. The number of dots needed to fill the ten-frame



P. There were 11 stars. Now there are
 ★ ★ ★ ★ ★ ★ ★ ★ ★ ★
 How many were taken away?

Q. The number reached on the last hop



R. $25 + 4 = \square$

S. There are 5 circles and 4 triangles. How many circles do not have a partner?

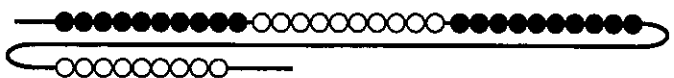
DOWN:

B. Choose the greatest number:
 31, 10, 13, 30

D. The number before seventy-one

L. The number that is 3 more than 59

N. The number of beads



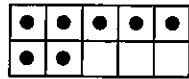
CROSS-NUMBER PUZZLE 44

A 3		B 8	0		C 5	D 3		E 2
		6		F 4		5		
G 4	0		H 4		J 8		K 9	0
		L 3		M 4		N 1		
P 3		Q 5	8		R 6	8		S 3

Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

A. The number of dots needed to fill the ten-frame

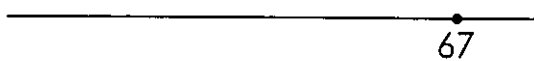


B. The number before 81

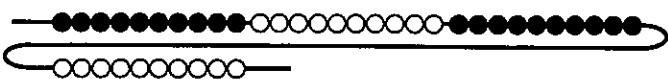
C. Choose the least number:
53, 91, 76, 84

E. There were 10 stars. Now there are
★ ★ ★ ★ ★ ★ ★ ★
How many were taken away?

F. The number of hops from 67 to 63



G. The number of beads



H. Share 8 pencils fairly between 2 friends. How many does each friend get?

J. Which number is even,
8 or 7 ?

K. The number after eighty-nine

M. There are 5 circles and 1 triangle. How many circles do not have a partner?

P. $7 - 4 = \square$

Q. The first number in the chain



R. The first number in the chain

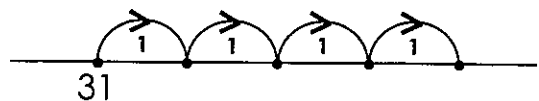


S. $6 + \square = 9$

DOWN:

B. The number that is 3 less than 89

D. The number reached on the last hop



L. $31 + 4 = \square$

N. The number of holes on the buttons



CROSS-NUMBER PUZZLE 45

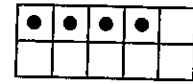
A 3		B 4	7		C 4	D 7		E 5
		6		F 3		1		
G 2	0		H 2		J 9		K 8	9
		L 4		M 6		N 5		
P 5		Q 1	0		R 8	0		S 3

Cross-Number Discovery Puzzles 1 - © Cella Baron 2013

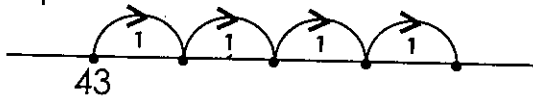
ACROSS:

A. $5 + \square = 8$

M. The number of dots needed to fill the ten-frame



B. The number reached on the last hop



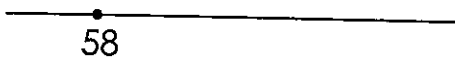
P. Share 10 pencils fairly between 2 friends. How many does each friend get?

C. $43 + 4 = \square$

Q. Which number is even, 9 or 10?

E. $9 - 4 = \square$

F. The number of hops from 58 to 61



R. The number after 79

G. The number of holes on the buttons



S. There were 11 stars. Now there are
 ★ ★ ★ ★ ★ ★ ★ ★ ★
 How many were taken away?

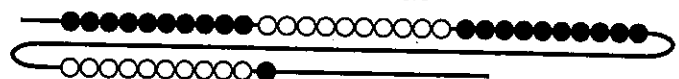
H. There are 5 circles and 3 triangles. How many circles do not have a partner?

DOWN:

B. The number that is 3 less than 49

D. The number that is 3 more than sixty-eight

L. The number of beads



N. Choose the least number: 61, 50, 60, 59

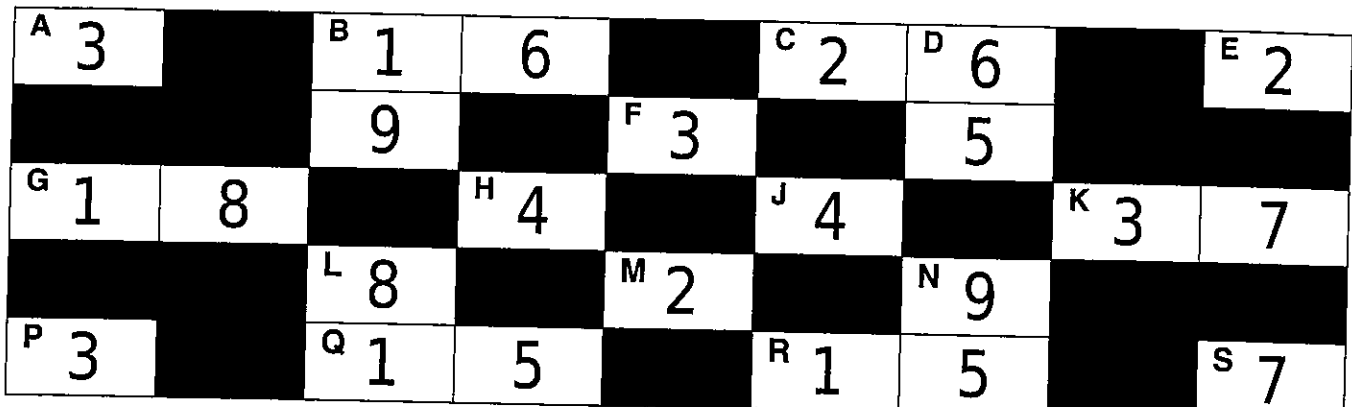
J. The first number in the chain



K. The first number in the chain



CROSS-NUMBER PUZZLE 46



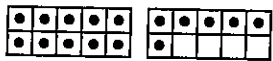
Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

A. $6 + \square = 9$

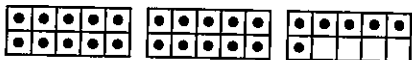
M. There are 6 circles and 4 triangles. How many circles do not have a partner?

B. The number the ten-frames show

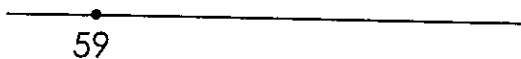


P. The number of hops from 31 to 28

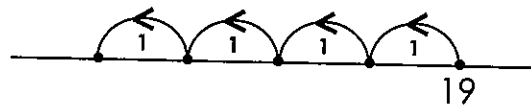
C. The number the ten-frames show



E. The number of hops from 59 to 61



Q. The number reached on the last hop



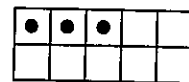
R. $19 - 4 = \square$

F. There were 12 stars. Now there are



How many were taken away?

S. The number of dots needed to fill the ten-frame



G. The number of holes on the buttons



DOWN:

H. How many numbers are even?

2, 4, 6, 8

B. The number that is 3 less than twenty-two

J. How many numbers are even?

12, 14, 16, 18

D. Choose the greatest number:
55, 60, 65, 50

K. $33 + 4 = \square$

L. The number that is 3 more than 78

N. The number before 96

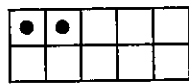
CROSS-NUMBER PUZZLE 47

A 8		B 2	4		C 2	D 4		E 3
		9		F 2		9		
G 1	6		H 2		J 2		K 5	9
		L 7		M 3		N 5		
P 4		Q 1	8		R 3	8		S 3

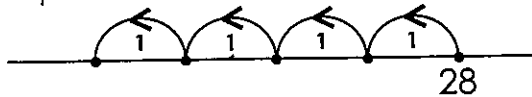
Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

A. The number of dots needed to fill the ten-frame



B. The number reached on the last hop



C. $28 - 4 = \square$

E. There are 6 circles and 3 triangles. How many circles do not have a partner?

F. $7 + \square = 9$

G. The number of holes on the buttons

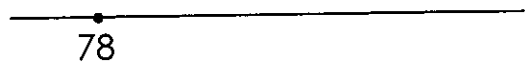


H. How many numbers are even?
3, 4, 5, 6

J. How many numbers are even?
13, 14, 15, 16

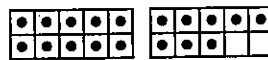
K. The number before 60

M. The number of hops from 78 to 81

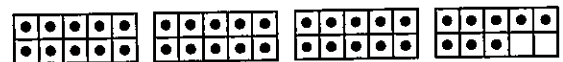


P. There were 11 stars. Now there are
★ ★ ★ ★ ★ ★ ★
How many were taken away?

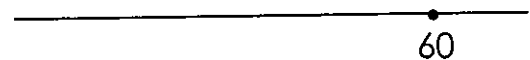
Q. The number the ten-frames show



R. The number the ten-frames show



S. The number of hops from 60 to 57



DOWN:

B. The number that is 3 less than 32

D. $45 + 4 = \square$

L. The number that is 3 more than sixty-eight

N. Choose the least number:

67, 85, 76, 58

CROSS-NUMBER PUZZLE 48

A 3		B 3	4		C 3	D 4		E 5
		9		F 6		3		
G 1	4		H 2		J 2		K 9	9
		L 8		M 4		N 5		
P 3		Q 1	7		R 3	7		S 4

Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

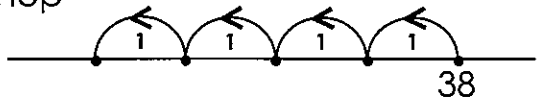
ACROSS:

A. There were 13 stars. Now there are

★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

How many were taken away?

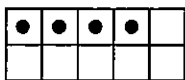
B. The number reached on the last hop



C. $38 - 4 = \square$

E. There are 6 circles and 1 triangle.
How many circles do not have a partner?

F. The number of dots needed to fill the ten-frame



G. The number of holes on the buttons



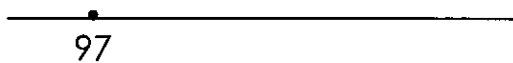
H. How many numbers are even?
1, 2, 3, 4

J. How many numbers are even?
11, 12, 13, 14

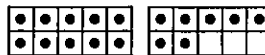
K. The number before 100

M. $4 + \square = 8$

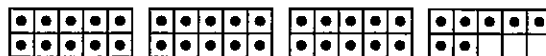
P. The number of hops from 97 to 100



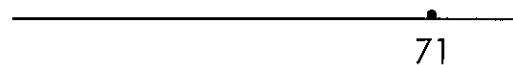
Q. The number the ten-frames show



R. The number the ten-frames show



S. The number of hops from 71 to 67



DOWN:

B. The number before 40

D. Choose the greatest number:
42, 34, 43, 24

L. The number that is 2 more than seventy-nine

N. $53 + 4 = \square$

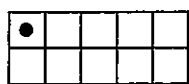
CROSS-NUMBER PUZZLE 49

A 9		B 6	5		C 9	D 2		E 3
		8		F 2		4		
G 2	0		H 2		J 2		K 7	0
		L 3		M 2		N 9		
P 3		Q 4	5		R 4	5		S 4

Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

ACROSS:

A. The number of dots needed to fill the ten-frame



B. $61 + 4 = \square$

C. The number that is 3 more than 89

E. The number of hops from 67 to 70



F. There are 7 circles and 5 triangles. How many circles do not have a partner?

G. The number of holes on the buttons

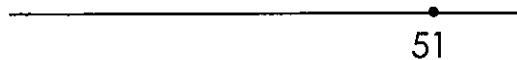


H. How many numbers are even?
7, 8, 9, 10

J. How many numbers are even?
17, 18, 19, 20

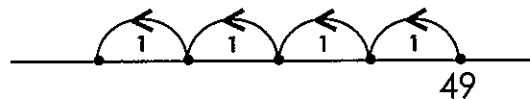
K. The number before seventy-one

M. The number of hops from 51 to 49



P. There were 12 stars. Now there are
★ ★ ★ ★ ★ ★ ★ ★ ★ ★
How many were taken away?

Q. The number reached on the last hop



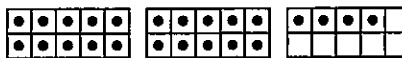
R. $49 - 4 = \square$

S. $3 + \square = 7$

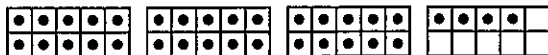
DOWN:

B. Choose the least number:
78, 68, 87, 86

D. The number the ten-frames show



L. The number the ten-frames show



N. The number that is 3 less than 98

CROSS-NUMBER PUZZLE 50

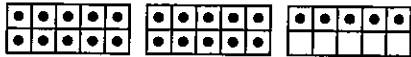
A 4		B 2	5		C 3	D 5		E 6
		9		F 4		2		
G 7	8		H 3		J 4		K 9	7
		L 5		M 3		N 9		
P 4		Q 2	0		R 1	0		S 0

Cross-Number Discovery Puzzles 1 - © Celia Baron 2013

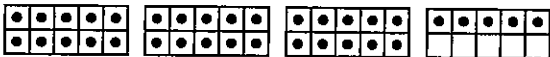
ACROSS:

A. $5 + \square = 9$

B. The number the ten-frames show



C. The number the ten-frames show

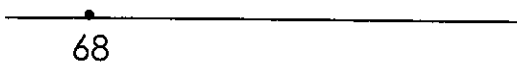


E. Share 12 pencils fairly between 2 friends. How many does each friend get?

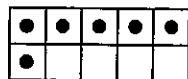
F. There were 12 stars. Now there are
★ ★ ★ ★ ★
★ ★ ★
 How many were taken away?

G. $74 + 4 = \square$

H. The number of hops from 68 to 71



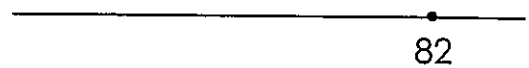
J. The number of dots needed to fill the ten-frame



K. The number that is 3 less than 100

M. There are 7 circles and 4 triangles. How many circles do not have a partner?

P. The number of hops from 82 to 78



Q. The number of holes on the buttons



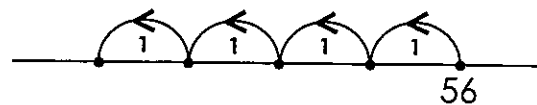
R. How many numbers are even?
 2, 4, 6, 8, 10, 12, 14, 16, 18, 20

S. How many numbers are even?
 1, 3, 5, 7, 9, 11, 13, 15, 17, 19

DOWN:

B. Choose the greatest number:
 29, 19, 21, 20

D. The number reached on the last hop



L. $56 - 4 = \square$

N. The number that is 3 more than eighty-seven

1.NBT Ordering Numbers

Alignments to Content Standards: 1.NBT.B.3

Task

Malik is given a list of numbers:

1 5 10 50 100

He wants to include the following numbers so all numbers will be listed in order from least (on the left) to greatest (on the right):

49, 7, 22, 98, and 3

Where in the list should he put each of these numbers?

IM Commentary

The purpose of this task is to give students an opportunity to compare numbers less than 100 to benchmark numbers. Even though a number line is not explicitly given in the task, it is useful for students to list the numbers in the order they would appear on the number line; this allows them to focus on the relative ordering without worrying about the exact placement on the number line. Students should also have a chance to do similar tasks with a number line.

1.NBT.3 asks students to record comparisons with the symbols $>$, $=$ and $<$. While this task does not ask for this, it helps build up an understanding of the relative magnitude of numbers which is a precursor to proficiency with the more abstract symbolic comparisons.

1.NBT Number Square

Task

Part 1

The teacher explains the Number Square:

- *In this big number square, the numbers in the little individual boxes get bigger by one as we travel to the right.*
- *When we get to the end of a row, the next number is found at the start of the line below.*
 - *Notice how the numbers get smaller by one as we travel to the left.*
- *When we get to the beginning of a row, the previous number is found at the end of the line above.*
 - *The first number on this number square is 1 and the last number is 100.*

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

Class discussion (think and share) and/or individual work (e.g. on white boards) given orally by the teacher:

- What number is to the right of 78? How does that number compare to 78?
- What number is three to the right of 34? How does that number compare to 34?
- What number is five to the left of 18? How does that number compare to 18?
- Start at 13 and move 11 steps forward (starting to the right) on the number square; where do we end up? What did we have to do after seven steps?

Part 2

If need be, the teacher can review the basics of the 1-100 Number Square. Class discussion and/or individual work proceeds through the following types of questions.

- a. Find the number $12 - 5$ by starting at 12 on the number square and counting back 5 steps, moving to the left and going up to the previous row as needed.
- b. Find the sum $37 + 10$ by starting at 37 on the number square and counting forward 10 spaces, moving to the right and going down to the next row as needed.
- c. Find the difference $37 - 10$ by starting at 37 on the number square and counting back 10 spaces, moving to the left and going up to the previous row as needed.

Part 3

If needed, the teacher can review basic adding and subtracting on the 1-100 Number Square. Class discussion and/or individual work proceeds through the following types of questions.

- a. Find the following sums using the number square:
 - $2 + 10$
 - $19 + 10$
 - $20 + 10$
 - $74 + 10$
 - $88 + 10$
- b. Where on the number square is the result of adding ten to a number? Use your answers above to help you.
- c. What happens when we add ten to a number? How would you explain what is happening?
- d. Find the following differences using the number square.
 - $13 - 10$
 - $39 - 10$
 - $40 - 10$
 - $65 - 10$

- $92 - 10$

e. Where on the number square is the result of subtracting ten from a number? Use your answers above to help you.

f. What happens when we subtract ten from a number? How would you explain what is happening?

Extension

a. Find the following sums without any tools (pencil and paper, blocks, or the number square). Use the number square to check your work.

- $38 + 10$
- $23 + 10$
- $51 + 10$
- $77 + 10$
- $5 + 10$

b. Find the following differences without any tools (pencil and paper, blocks, or the number square). Use the number square to check your work.

- $45 - 10$
- $31 - 10$
- $60 - 10$
- $78 - 10$
- $12 - 10$



1.OA Boys and Girls, Variation 1

Alignments to Content Standards: 1.OA.A.1

Task

- a. 9 boys and 8 girls were in the class. How many children were in the class in all?
- b. 17 children were in the class. 9 were boys and the rest were girls. How many girls were in the class?
- c. 17 children were in the class. There were some boys and 8 girls. How many boys were in the class?

IM Commentary

These tasks types represent the Put Together/Take Apart contexts for addition and subtraction (see Table 1 in the glossary of the CCSSM for all all addition and subtraction problem types). Students may use either addition or subtraction to solve these types of word problems, with addition related to the action of putting together and subtraction related to the action of taking apart. Depending on how students think about these word problems, either is appropriate for the “addend unknown” problems. Seeing it both ways emphasizes the relationship between addition and subtraction.

The use of “in all” or “altogether” makes result unknown problems significantly easier for students, since these words are such strong cues to put sets together. Students need experiences with problems both with and without such cues. When working with categories like boys-girls-children, it is important to be sure that students understand the contexts. Please see page 10 of the K, Counting and Cardinality; K–5, Operations and Algebraic Thinking Progressions Document for in-depth information about issues related to students’ learning of these kinds of problems.

Note that while students are expected to add and subtract fluently within 10 in first grade (1.OA.6), they are not expected to add and subtract fluently within 20 until second grade (2.OA.2).

Edit this solution

Solution

Please note that students may use objects, pictures, or equations to represent their solutions. Furthermore, the solutions show equations with a question mark representing the unknown value, but other symbols are often used. For example, $9 + ? = 17$ might also be written $9 + \underline{\quad} = 17$ or $9 + \square = 17$. Note that it is important to include examples with the total written on both sides of the equation.

a. Total Unknown: 17 children were in the class.

Possible equations:

- $9 + 8 = ?$
- $8 + 9 = ?$
- $? = 9 + 8$
- $? = 8 + 9$

b. Addend Unknown: There were 8 girls.

Possible equations:

- $17 = 9 + ?$
- $17 = ? + 9$
- $9 + ? = 17$
- $? + 9 = 17$
- $17 - 9 = ?$

c. Addend Unknown: There were 9 boys.

Possible equations:

- $17 = 8 + ?$
- $17 = ? + 8$
- $8 + ? = 17$

- $? + 8 = 17$
- $17 - 8 = ?$



1.OA Boys and Girls, Variation 1
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1.OA Fact Families with Pictures

Task

Write as many equations for each picture as you can.

a. Use the numbers 4, 1, and 5.



Here are some equations for this picture.

$$4 + 1 = 5$$

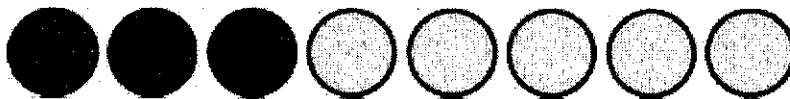
$$5 = 4 + 1$$

$$5 - 1 = 4$$

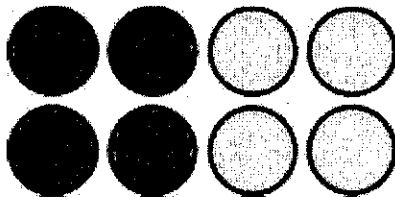
$$4 = 5 - 1$$

Can you find more equations?

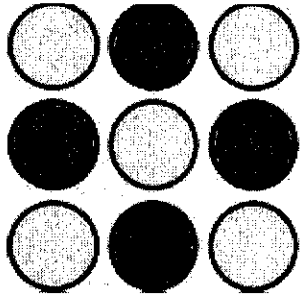
b. Use the numbers 3, 5, and 8.



c. Use the numbers 4, 4, and 8.



d. Use the numbers 4, 5, and 9.



e. Draw your own picture and write all the equations you can think of to describe it.

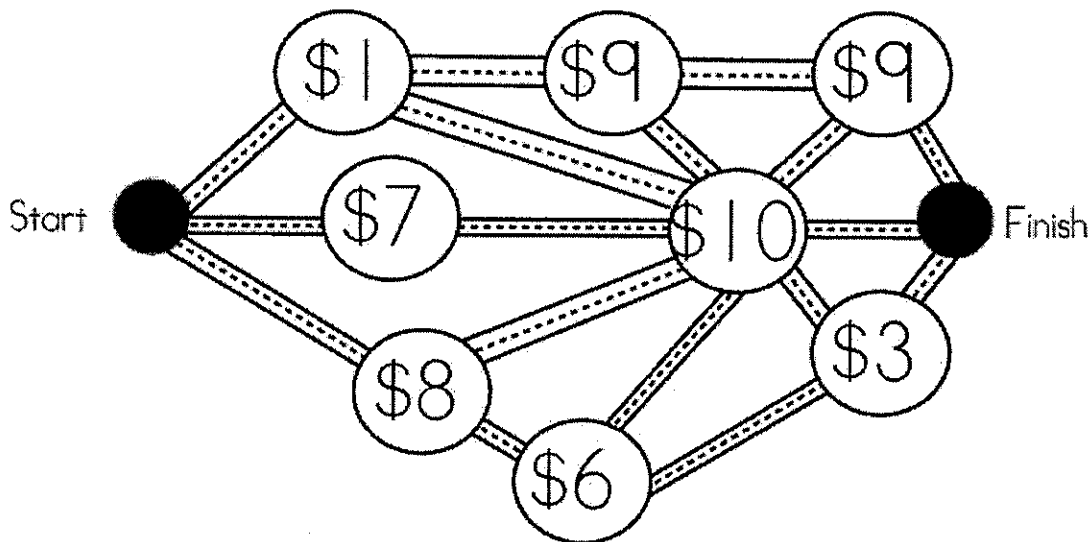


1.OA Fact Families with Pictures
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1.OA \$20 Dot Map

Task

The attached graphic shows a map. You must get from start to finish by visiting three of the dots, at each dot you have to pay the specified number of dollars. If you have \$20 can you get from start to finish and visit three dots?



Bonus Question #1: Can you find a way to get from start to finish and spend all \$20?
Can you find a way to get from start to finish and spend less than \$20?

Bonus Question #2: How many different routes can you find from start to finish that go to three dots and cost \$20 or less?