



MY Bug Book of Bonds to 10

RECOMMENDED FOR USE IN FOUNDATION PHASE



NAME _____

SCHOOL _____

GRADE _____

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By learning, practising and understanding the number combinations, learners are able to build up and master basic number facts. This is imperative for their understanding of numeracy.

This book offers a systematic approach to mastering basic number facts and is arranged in such a way that learners may recognize number patterns.

The use of blocks enables the learners to write the numbers correctly and neatly.

There are number lines at the top of each page so that the learner can work out the answers- if necessary- by using the number lines.

Bonds to three.



Fill in the missing numbers: 0 1 2 3

1. $\boxed{0} + \boxed{1} = \boxed{1}$

6. $\boxed{0} + \boxed{} = \boxed{3}$

2. $\boxed{1} + \boxed{0} = \boxed{1}$

$\boxed{1} + \boxed{2} = \boxed{}$

3. $\boxed{0} + \boxed{2} = \boxed{}$

8. $\boxed{2} + \boxed{} = \boxed{3}$

4. $\boxed{} + \boxed{1} = \boxed{2}$

9. $\boxed{} + \boxed{0} = \boxed{3}$

5. $\boxed{2} + \boxed{} = \boxed{2}$



Bonds to three.

2

Fill in the missing numbers: 0 1 2 3

Make 1

0	
1	0

Make 2

0	
1	1
2	

Make 3

0	
1	2
2	
3	



$0 + 1 = \square$

$1 + 0 = \square$

$0 + 2 = \square$

$2 + 0 = \square$

$1 + 1 = \square$

$1 + 2 = \square$

$3 + 0 = \square$

$1 + 2 = \square$

$2 + 1 = \square$

$1 - 0 = \square$

$1 - 1 = \square$

$2 - 0 = \square$

$2 - 1 = \square$

$2 - 2 = \square$

$3 - 0 = \square$

$3 - 1 = \square$

$3 - 2 = \square$

$3 - 3 = \square$

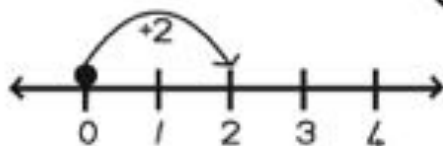
Bonds to three.

3

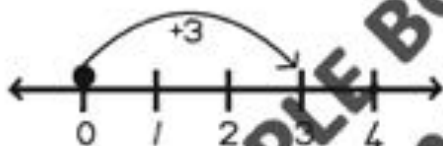
Fill in the missing numbers: 0 1 2 3



$$0 + 1 = \square$$



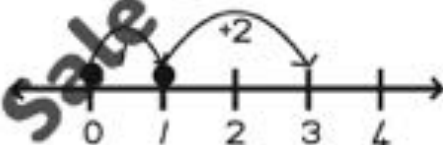
$$0 + 2 = \square$$



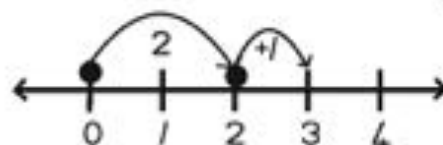
$$0 + 3 = \square$$



$$1 + 1 = \square$$



$$1 + 2 = \square$$



$$2 + 1 = \square$$

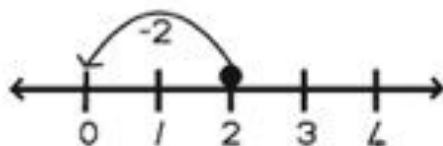
Bonds to three.

6

Fill in the missing numbers: 0 1 2 3



$$1 - 1 = \square$$



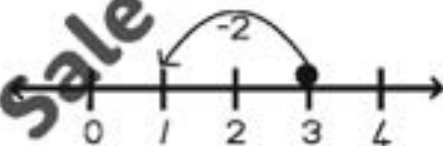
$$2 - 2 = \square$$



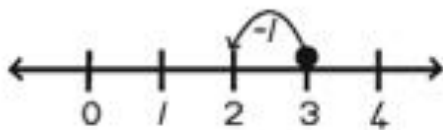
$$3 - 3 = \square$$



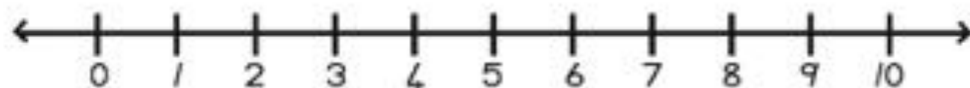
$$2 - 1 = \square$$



$$3 - 2 = \square$$



$$3 - 1 = \square$$



1. $0 + 4 =$
2. $4 + 0 =$
3. $3 + 1 =$
4. $1 + 3 =$
5. $2 + 2 =$

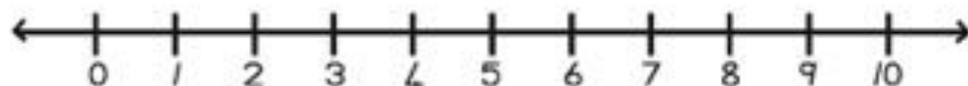
6. $0 + 0 =$
7. $3 + 0 =$
8. $2 + 1 =$
9. $1 + 2 =$
10. $0 + 3 =$

11. $0 + 2 =$
12. $1 + 1 =$
13. $2 + 0 =$
14. $1 + 0 =$
15. $0 + 1 =$

1. $4 - 0 =$
2. $4 - 1 =$
3. $4 - 2 =$
4. $4 - 3 =$
5. $4 - 4 =$

6. $3 - 0 =$
7. $3 - 1 =$
8. $3 - 2 =$
9. $3 - 3 =$
10. $2 - 0 =$

11. $2 - 1 =$
12. $2 - 2 =$
13. $1 - 0 =$
14. $1 - 1 =$



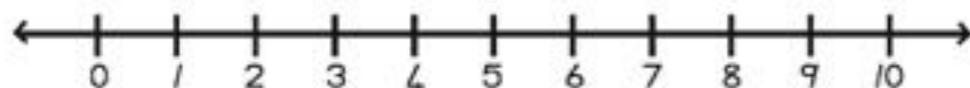
0 + 1 =
2 - 0 =
4 - 2 =
1 + 1 =
1 + 2 =
4 - 0 =
1 + 3 =
2 - 1 =
0 + 0 =
2 - 2 =

0 + 2 =
4 + 0 =
4 - 1 =
1 - 0 =
2 + 0 =
4 - 4 =
0 + 4 =
4 - 3 =
2 + 1 =
1 - 1 =

1 + 0 =
2 + 2 =
2 - 0 =
3 - 1 =
3 + 0 =
3 - 2 =
0 + 3 =
3 + 1 =
3 - 3 =
1 + 2 =



Bonds to five - plus and minus. 7



$5 + 0 =$

$0 + 5 =$

$4 + 1 =$

$1 + 4 =$

$3 + 2 =$

$2 + 3 =$

$2 + 2 =$

$4 + 0 =$

$1 + 3 =$

$1 + 2 =$

$0 + 4 =$

$3 + 1 =$

$2 + 0 =$

$2 + 1 =$

$1 + 1 =$

$3 + 0 =$

$2 + 2 =$

$0 + 1 =$

$5 - 0 =$

$5 - 1 =$

$5 - 2 =$

$5 - 3 =$

$5 - 4 =$

$5 - 5 =$

$5 - 0 =$

$3 - 1 =$

$2 - 2 =$

$4 - 0 =$

$2 - 0 =$

$4 - 2 =$

$3 - 2 =$

$4 - 4 =$

$3 - 3 =$

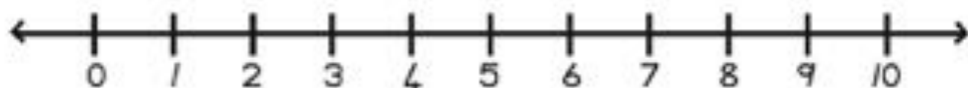
$4 - 1 =$

$4 - 3 =$

$2 - 1 =$

Bonds to five - mixed.

8



4	+	1	=
5	-	4	=
3	+	1	=
2	+	3	=
5	-	3	=
0	+	4	=
5	-	2	=
2	+	2	=
5	-	0	=
4	-	3	=

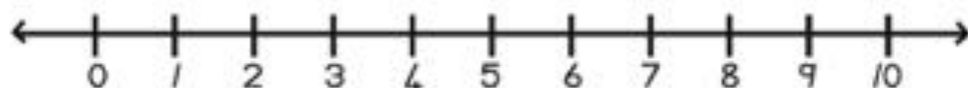
4	-	2	=
3	+	2	=
2	-	0	=
4	+	1	=
2	+	2	=
5	+	5	=
1	+	3	=
4	-	1	=
2	+	2	=
3	-	2	=

1	+	1	=
0	+	5	=
5	+	1	=
3	-	1	=
2	+	1	=
1	+	2	=
4	-	4	=
2	-	1	=
3	+	0	=
4	+	0	=



Bonds to five - mixed.

9



Now work these out! Fill in the missing numbers.

4	-		=	2
3	+		=	5
2	-		=	2
4	+		=	5
2	-		=	0
5	-		=	0
1	+		=	4
4	-		=	3
2	+		=	4
3	-		=	1

1	+		=	2
0	+		=	5
5	-		=	4
3	-		=	2
2	+		=	3
1	+		=	3
4	-		=	0
2	-		=	1
3	+		=	3
4	+		=	4

	+	1	=	5
4	+		=	1
	+	1	=	4
	+	3	=	5
	-	3	=	2
	+	4	=	4
	-	2	=	3
	+	2	=	4
	-	0	=	5
	-	3	=	1



6	+	0	=
0	+	6	=
5	+	1	=
1	+	5	=
4	+	2	=
2	+	4	=

3	+	3	=
2	+	1	=
4	+	1	=
1	+	2	=
1	+	4	=
5	+	0	=

3	+	1	=
2	+	2	=
1	+	3	=
2	+	3	=
4	+	0	=
3	+	2	=

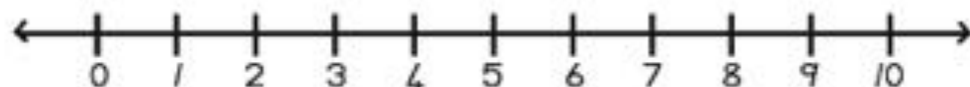
6	-	0	=
6	-	1	=
6	-	2	=
6	-	3	=
6	-	4	=
6	-	5	=

6	-	6	=
4	-	4	=
5	-	4	=
5	-	5	=
4	-	2	=
5	-	0	=

5	-	3	=
5	-	2	=
4	-	3	=
5	-	1	=
3	-	3	=
4	-	1	=

Bonds to six - mixed.

11



3+3=
6-6=
6+0=
4+2=
6-3=
5+0=
5-0=
0+6=
4-2=
5-1=
1+4=

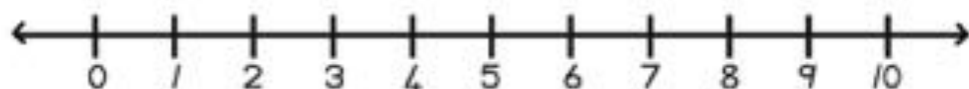
5-3=
2+2=
6-1=
3+2=
4-3=
6-0=
3+1=
6-5=
1+3=
4-4=
4+1=

5+1=
4+2=
5-4=
5-5=
1+5=
2+3=
5-2=
6-4=
4+0=
2+1=
6-2=



Bonds to six - mixed.

12

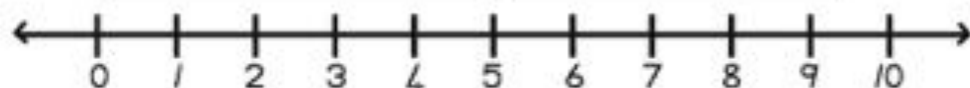


Now work these out! Fill in the missing numbers.

5 +	=	6	3 +	=	6	- 3	=	2
4 +	=	6	6 -	=	0	+ 2	=	4
5 -	=	1	6 +	=	6	- 1	=	5
5 -	=	0	4 +	=	8	+ 2	=	5
1 +	=	6	6 -	=	3	- 3	=	1
2 +	=	0	5 +	=	5	- 0	=	6
5 -	=	3	- 0	=	5	+ 1	=	4
6 -	=	2	+ 6	=	6	- 5	=	1
4 +	=	4	- 2	=	2	+ 3	=	4
2 +	=	3	- 1	=	4	- 4	=	0
6 -	=	4	+ 4	=	5	+ 1	=	5

Bonds to seven- plus and minus.

13



$7+0=$

$4+3=$

$2+5=$

$0+7=$

$3+4=$

$3+3=$

$6+1=$

$4+2=$

$5+1=$

$1+6=$

$1+5=$

$2+4=$

$5+2=$

$4+1=$

$3+2=$

$2+5=$

$2+3=$

$2+2=$

$7-0=$

$7-6=$

$6-5=$

$7-1=$

$7-7=$

$6-4=$

$7-2=$

$6-3=$

$6-2=$

$7-3=$

$6-6=$

$5-2=$

$7-4=$

$6-1=$

$5-1=$

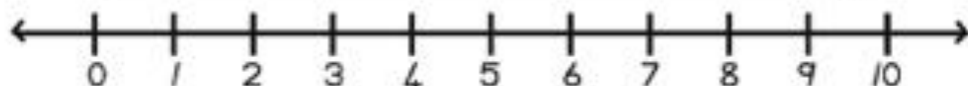
$7-5=$

$5-3=$

$6-0=$

Bonds to seven - mixed.

14



$6 + 1 =$



$6 - 0 =$



$4 + 2 =$

$7 - 0 =$



$7 + 0 =$



$5 + 2 =$

$4 + 3 =$



$6 - 4 =$



$7 - 5 =$

$2 + 5 =$



$0 + 7 =$



$5 - 2 =$

$6 - 2 =$



$7 - 4 =$



$3 + 3 =$

$4 + 1 =$



$6 - 5 =$



$5 + 1 =$

$6 - 6 =$



$3 + 2 =$



$7 - 2 =$

$2 + 3 =$



$6 - 3 =$



$7 - 3 =$

$7 - 1 =$



$1 + 4 =$



$2 + 2 =$

$5 - 3 =$

$7 - 7 =$

$1 + 5 =$

$5 + 0 =$

$2 + 4 =$

$7 - 6 =$



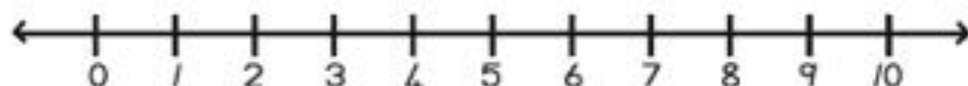
Bonds to seven - mixed.

15



Now work these out! Fill in the missing numbers.

4 +	= 6		+ 1 = 7		6 -	= 6
5 +	= 7		- 0 = 7		7 +	= 7
7 -	= 2		+ 3 = 7		6 -	= 2
5 -	= 3		+ 5 = 7		0 +	= 7
3 +	= 6		- 2 = 4		7 -	= 3
5 +	= 6		4 +	= 5		- 5 = 2
- 2 = 5			6 -	= 0		+ 2 = 5
- 3 = 4			2 +	= 5		- 3 = 3
+ 2 = 4			7 -	= 6		+ 4 = 5
+ 5 = 6			5 -	= 2		- 7 = 0
- 6 = 1			5 +	= 5		+ 4 = 6



$8 + 0 =$

$0 + 8 =$

$7 + 1 =$

$1 + 7 =$

$6 + 2 =$

$2 + 6 =$

$5 + 3 =$

$3 + 5 =$

$4 + 4 =$

$4 + 3 =$

$2 + 4 =$

$3 + 3 =$

$1 + 1 =$

$3 + 2 =$

$3 + 1 =$

$5 + 2 =$

$2 + 2 =$

$1 + 4 =$

$8 - 0 =$

$8 - 1 =$

$8 - 2 =$

$8 - 3 =$

$8 - 4 =$

$8 - 5 =$

$8 - 6 =$

$8 - 7 =$

$8 - 8 =$

$6 - 0 =$

$7 - 7 =$

$7 - 5 =$

$7 - 6 =$

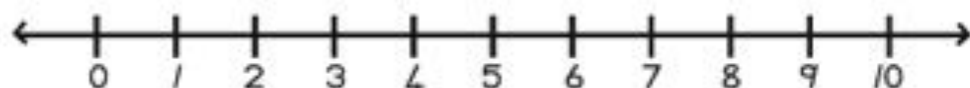
$5 - 3 =$

$7 - 4 =$

$7 - 2 =$

$6 - 5 =$

$7 - 3 =$



 $5 + 2 =$	$6 - 0 =$	$1 + 7 =$ 
 $8 - 6 =$	$6 + 2 =$	$7 + 1 =$ 
 $3 + 5 =$	$8 - 4 =$	$7 - 1 =$ 
$4 + 3 =$	$5 + 3 =$	$6 - 5 =$ 
 $7 - 6 =$	$8 - 3 =$	$2 + 4 =$ 
 $8 + 0 =$	$8 - 2 =$	$3 + 2 =$ 
$8 - 7 =$	$0 + 8 =$	$7 - 3 =$ 
 $4 + 4 =$	$8 - 8 =$	$8 - 5 =$ 
 $5 - 3 =$	$2 + 6 =$	$2 + 2 =$ 
$8 - 0 =$	$8 - 1 =$	$1 + 4 =$ 
 $3 + 3 =$	$3 + 1 =$	$7 - 5 =$ 





Now work these out! Fill in the missing numbers.

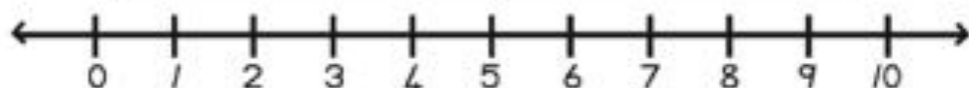
1 + = 8	+ 2 = 7	- 0 = 6
7 + 1 =	8 - 6 =	6 + = 8
- 4 = 3	3 + = 8	8 - = 4
6 - = 1	4 + 3 =	5 + 3 =
2 + = 6	7 - = 1	- 3 = 5
+ 2 = 5	8 + = 8	8 - = 6
7 - 3 =	- 7 = 1	0 + 8 =
8 - = 3	4 + = 8	8 - = 0
+ 2 = 4	- 3 = 2	2 + = 8
+ 4 = 5	8 - = 8	- 1 = 7
7 - = 2	3 + = 6	+ 1 = 4

Bonds to eight.

19

A spider has 8 legs. These spiders have legs missing. Draw in the missing legs and write the number of missing legs in the block underneath each spider.





$9 + 0 =$

$6 + 3 =$

$7 + 1 =$

$0 + 9 =$

$3 + 6 =$

$5 + 3 =$

$8 + 1 =$

$7 + 2 =$

$2 + 3 =$

$1 + 8 =$

$2 + 7 =$

$3 + 3 =$

$7 + 2 =$

$2 + 6 =$

$1 + 5 =$

$2 + 7 =$

$4 + 1 =$

$4 + 2 =$

$9 - 0 =$

$9 - 6 =$

$8 - 6 =$

$9 - 1 =$

$9 - 7 =$

$8 - 5 =$

$9 - 2 =$

$9 - 8 =$

$8 - 4 =$

$9 - 3 =$

$9 - 9 =$

$8 - 2 =$

$9 - 4 =$

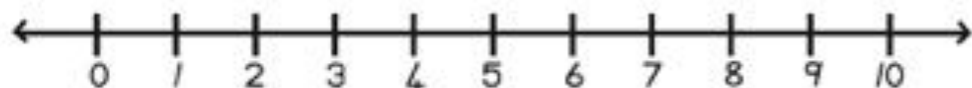
$8 - 3 =$

$7 - 5 =$

$9 - 5 =$

$7 - 6 =$

$7 - 4 =$

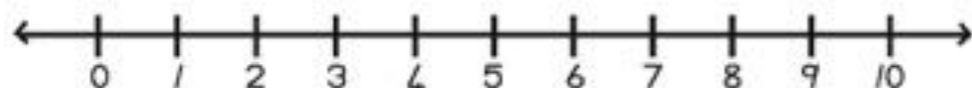


 $7 + 2 =$	$9 - 6 =$	$2 + 3 =$ 
 $8 - 6 =$	$8 + 1 =$	$3 + 3 =$ 
$4 + 2 =$	$9 - 0 =$	$9 - 1 =$ 
 $7 + 1 =$	$2 + 6 =$	$9 - 5 =$ 
 $9 - 7 =$	$8 - 3 =$	$1 + 8 =$ 
 $2 + 7 =$	$9 - 3 =$	$4 + 4 =$ 
 $8 - 5 =$	$7 + 2 =$	$7 - 6 =$ 
$9 + 0 =$	$8 - 4 =$	$9 - 4 =$ 
 $9 - 8 =$	$3 + 6 =$	$6 + 3 =$ 
 $9 - 9 =$	$8 - 2 =$	$5 + 3 =$ 
 $2 + 7 =$	$1 + 5 =$	$9 - 2 =$ 



Bonds to nine - mixed.

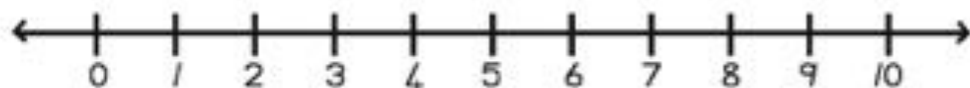
22



Now work these out! Fill in the missing numbers.

9 -	= 3	+ 3 =	5	7 +	= 9
8 +	= 9	+ 3 =	6	8 -	= 2
9 -	= 9	- 1 =	8	4 +	= 6
2 +	= 8	- 5 =	4	7 +	= 8
8 -	= 5	+ 8 =	9	9 -	= 2
- 3 =	6	+ 4 =	8	2 +	= 9
+ 2 =	9	- 6 =	1	8 -	= 3
- 1 =	4	- 4 =	5	9 +	= 9
+ 6 =	9	+ 3 =	9	9 -	= 1
- 2 =	6	+ 3 =	8	9 -	= 0
+ 5 =	6	- 2 =	7	2 +	= 9

Bonds to ten - plus and minus. 23



0	$+/$	1
1		
2		
3		
4		5
5		
6		
7		
8		
9		

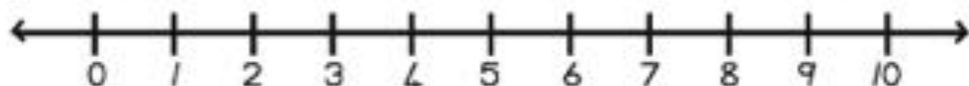
0	$+2$	
1		
2		
3		
4		7
5		
6		
7		
8		

1	$-/$	
2		
3		
4		
5		4
6		
7		
8		
9		
10		

2	-2	
3		
4		
5		
6		
7		
8		
9		
10		7

Bonds to ten - plus and minus.

24

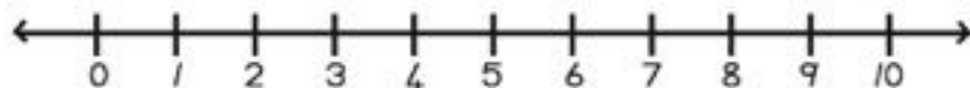


7	$+3$	
0		
5		
2		
2		
4		
6		
1		
3		

0	$+4$	
1		
2		
3		
4		
5		
8		

7	-3	
5		
8		
3		
3		
6		
10		
4		
9		

7	-4	
8		
9		
5		
10		
6		
4		



A ten-frame with a central box containing $+5$. The left column contains the numbers 3, 0, 1, 2, 4, and 5. The right column has a faint number 9. There are cartoon bees at the top and bottom of the frame.

A ten-frame with a central box containing $+5$. The left column contains the numbers 0, 1, 2, 3, and 4. The right column has a faint number 10. There are cartoon bees at the top and bottom of the frame.

A ten-frame with a central box containing -5 . The left column contains the numbers 6, 9, 8, 10, and 7. The right column has a faint number 3. There are cartoon bees at the top and bottom of the frame.

A ten-frame with a central box containing -6 . The left column contains the numbers 8, 10, 9, 7, and 6. The right column has a faint number 1. There are cartoon bees at the top and bottom of the frame.

Bonds to ten.

26

Fill in the missing numbers.

8	
	4
	6
8	
5	
	2
	7
3	
	1

6	
2	
	0
5	
	1
	3
	4

7	
	2
5	
	3
6	
1	
	0

2	
	0
2	



9	
8	
2	
	6
5	
	7
3	
	4
9	
1	

5	
	3
2	
	0
1	
4	

10	
2	
	1
	6
3	
9	
	5
7	
	8
	0
	4



4	
	3
2	
	1



Circle the pairs of numbers which total 10.

The numbers must be next to each other in touching squares.

Find as many as you can.



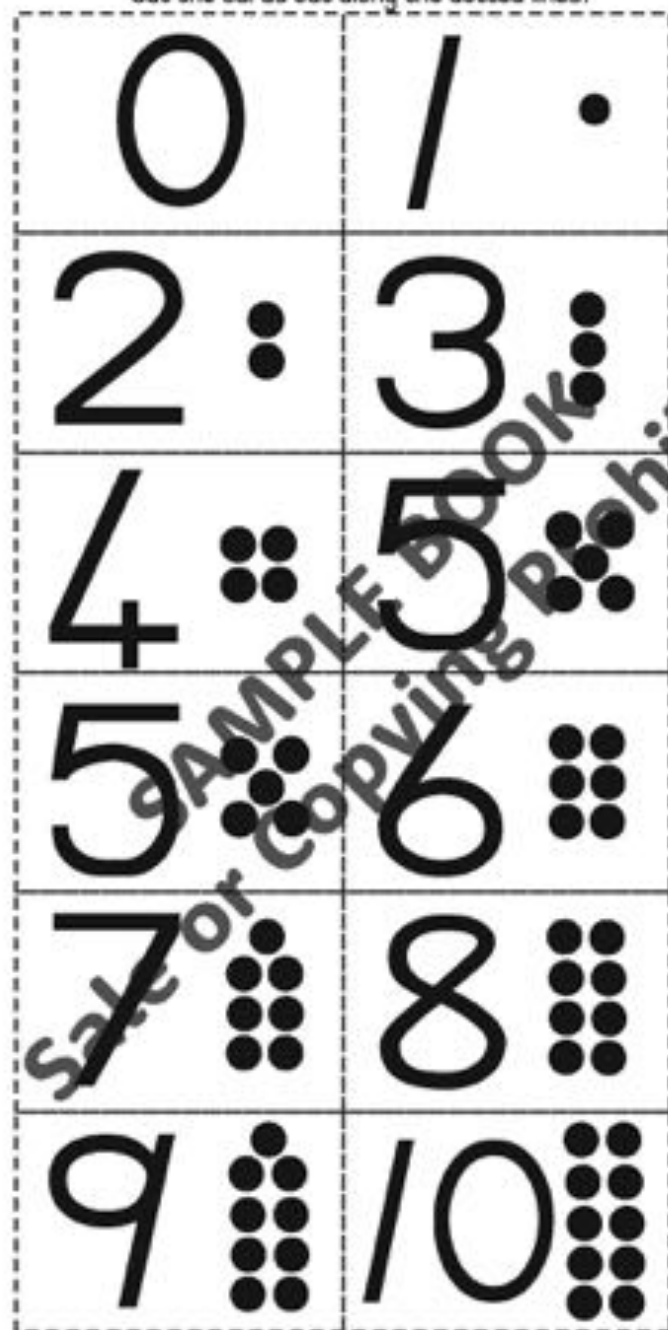
6	4	4	1	9	9	1	7
6	2	8	5	3	7	5	5
2	1	7	3	5	8	4	6
5	5	2	6	4	3	7	9
6	9	1	2	4	5	2	8
9	8	6	5	5	2	9	1
4	6	1	3	7	5	5	7
4	1	8	2	9	4	6	3
9	5	5	7	3	1	9	6
8	2	1	9	5	5	4	9



Number cards on back of page. [28]

SAMPLE BOOK
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Cut the cards out along the dotted lines.



Bonds to ten.

30

Fill in the missing answers.

+	1	2	3	4	5	-	6	7	8	9	10
1						1	5				
2						2					
3		5				3					
4						4					
5					10	5					5



Double



Halve

0	→		10	→	
1	→		8	→	
2	→		6	→	
3	→		4	→	
4	→		2	→	
5	→		0	→	

10 - 1 =	
9 + 1 =	
4 - 3 =	
1 + 3 =	
4 + 5 =	
9 - 4 =	
9 - 5 =	
8 - 3 =	
5 + 3 =	
6 + 4 =	
10 - 6 =	
10 - 4 =	

Bonds to ten.

Put the cards in 6 equal piles so that each pile adds up to 10. Record your results here:

Pile /

0	+		
---	---	--	--

Pile 2

	+	
--	---	--

Pile 3

	+	
--	---	--

Pile 4

	+	
--	---	--

Pile 5

	+	
--	---	--

Pile 6

	+	
--	---	--

Card game

Addition and subtraction - play in groups of 2 - 4. Use two packs of cards and take turns to turn 2 up at a time. Add or subtract them (decide before the start which one to do) and the first one to answer correctly keeps the cards. The player with the most cards at the end of the game, wins the game.

Take any 10 of the cards and turn them upside down so that you can't see the numbers. Now see how many ways you can stack the 10 cards into 5 piles.

example

10 cards into 3 piles

Example

1	2	2	2	3
---	---	---	---	---

$1 + 2 + 2 + 2 + 3 = 10$



Now record your results in these blocks.

[illegible]

Bonds to ten - plus and minus.

32

Fill in the answers.



$4 + 4 = \square$

$10 - 3 = \square$

$8 + 0 = \square$



$4 + 6 = \square$



$2 - 2 = \square$

$10 - 4 = \square$

$10 - 1 = \square$



$9 - 4 = \square$



$6 + 3 = \square$

$3 + 3 = \square$

$10 - 5 = \square$

$3 + 0 = \square$

$4 + 3 = \square$



$9 - 3 = \square$

$6 + 4 = \square$

$7 - 7 = \square$



$9 - 2 = \square$



$5 + 2 = \square$

$5 + 4 = \square$

$6 - 3 = \square$

$7 - 5 = \square$

$4 - 4 = \square$

$0 + 9 = \square$



$2 + 3 = \square$

$1 + 7 = \square$

$8 - 5 = \square$



$8 + 1 = \square$

$9 + 1 = \square$

$10 + 0 = \square$

$9 - 6 = \square$

$6 - 5 = \square$

$9 - 8 = \square$

$10 - 7 = \square$



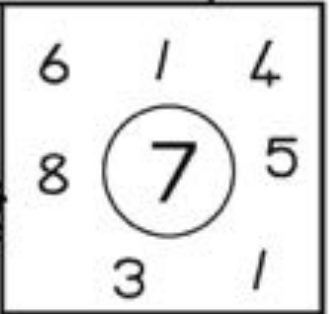
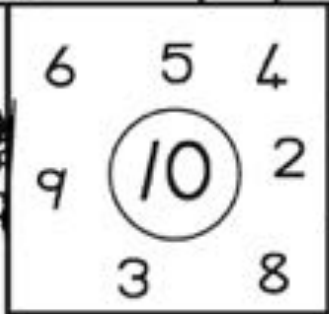
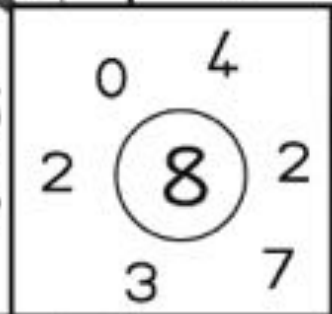
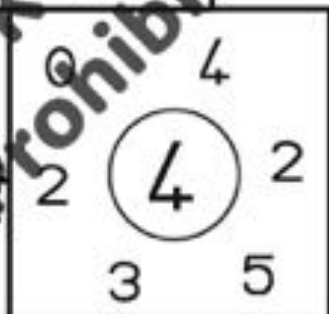
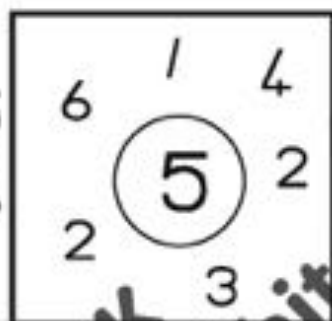
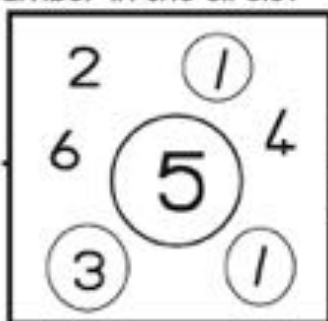
$1 + 0 = \square$

Bonds to 10 using 3 numbers.

33

Draw circles around the 3 numbers that add up to the number in the circle.

eg.



Plus and minus.

34

Fill in the answers.

$$2 + 2 + 2 + 2 + 2 = \square \square$$

$$3 + 3 + 3 = \square$$

$$1 + 2 + 1 + 2 + 1 = \square$$



$$0 + 2 + 4 + 1 + 0 = \square$$

$$1 + 2 + 0 + 1 + 3 + 1 = \square$$

$$10 - 2 - 2 - 2 - 2 = \square$$

$$9 - 3 - 3 - 3 = \square$$

$$8 - 2 - 1 - 1 = \square$$



$$9 - 2 - 1 - 2 - 1 = \square$$

$$10 - 4 - 4 - 1 = \square$$



$$0 + 1 + 2 + 3 - 2 = \square$$

$$4 - 2 + 3 + 4 - 4 = \square$$



$$6 + 3 - 3 + 1 + 2 - 1 = \square$$

$$10 - 5 + 3 - 2 - 1 + 1 = \square$$

$$5 - 3 + 2 + 1 - 1 + 2 = \square$$

$$1 + 2 + 3 + 1 + 2 + 0 - 2 = \square$$

Plus and minus.

35

Work out each answer and then draw a line to the correct answer on the ant's back.

6

$$1 + 1 + 4 - 5$$



1



3

$$4 + 6 - 5 - 2$$



$$3 + 3 + 3 - 3$$

5



$$2 + 1 - 0 + 2$$

$$0 + 1 + 6 - 3$$

4



$$3 + 2 - 5 + 2$$

2



$$5 - 2 + 3 + 1$$

7



$$10 - 8 + 6 + 2$$

0



$$7 - 7 + 5 + 4$$

$$5 + 5 - 1 - 1$$

10



$$10 - 10 + 5 - 5$$

9



8

