

Mathletics

Series



Teacher



Operations with Number



Series B – Operations with Number

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Series Author:

Rachel Flenley

Series B – Operations with Number

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1a $1 + 4 = 5$
 $5 - 1 = 4$

b $2 + 3 = 5$
 $5 - 2 = 3$

Page 2

1a $4 + 1 = 5$
 $5 - 4 = 1$

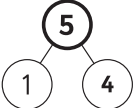
b $5 + 0 = 5$
 $5 - 5 = 0$

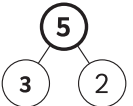
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 $5 - 3 = 2$

d $1 + 4 = 5$
 $5 - 1 = 4$

e $0 + 5 = 5$
 $5 - 0 = 5$

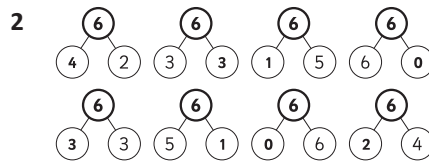
Page 3

1  $1 + 4 = 5$
 $4 + 1 = 5$

2  $5 - 2 = 3$
 $5 - 3 = 2$

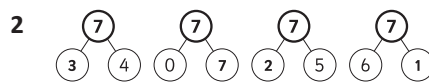
Page 4

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



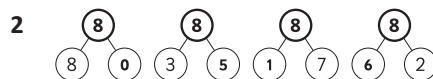
Page 5

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

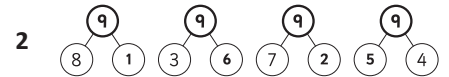
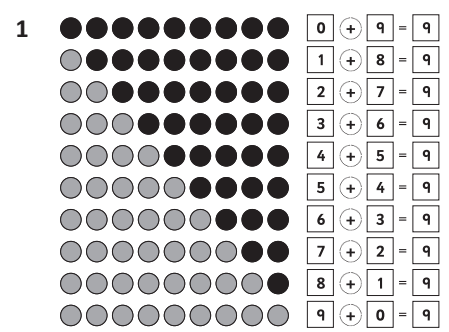


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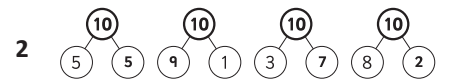
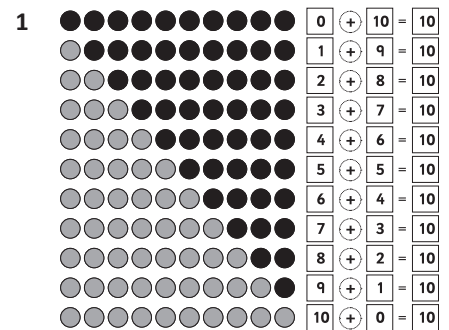
1 $0 + 8 = 8$ $8 - 8 = 0$
 $1 + 7 = 8$ $8 - 7 = 1$
 $2 + 6 = 8$ $8 - 6 = 2$
 $3 + 5 = 8$ $8 - 5 = 3$
 $4 + 4 = 8$ $8 - 4 = 4$
 $5 + 3 = 8$ $8 - 3 = 5$
 $6 + 2 = 8$ $8 - 2 = 6$
 $7 + 1 = 8$ $8 - 1 = 7$
 $8 + 0 = 8$ $8 - 0 = 8$



Page 7



Page 8



Page 9

1a $1 + 9 = 10$
 $10 - 1 = 9$

b $2 + 8 = 10$
 $10 - 2 = 8$

c $3 + 7 = 10$
 $10 - 3 = 7$

d $4 + 6 = 10$
 $10 - 4 = 6$

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Page 10

1a $5 + 5 = 10$

$10 - 5 = 5$

b $6 + 4 = 10$

$10 - 6 = 4$

c $7 + 3 = 10$

$10 - 7 = 3$

d $8 + 2 = 10$

$10 - 8 = 2$

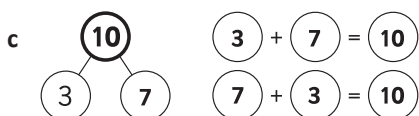
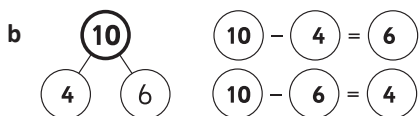
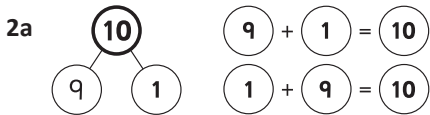
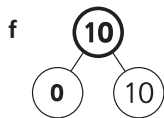
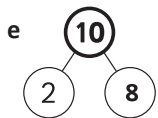
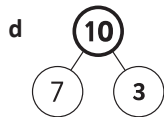
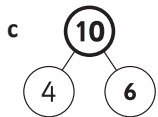
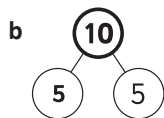
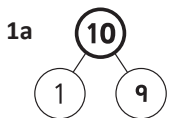
e $9 + 1 = 10$

$10 - 9 = 1$

f $10 + 0 = 10$

$10 - 10 = 0$

Page 11



Page 12

1a $10 - 2 = 8$

b $10 - 4 = 6$

c $10 - 5 = 5$

d $10 - 7 = 3$

e $10 - 8 = 2$

f $10 - 1 = 9$

g $10 - 6 = 4$

h $10 - 10 = 0$

Page 13

1a 10

b 9

c 8

d 7

e 6

f 5

g 4

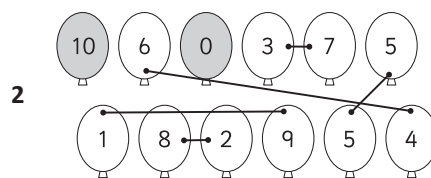
h 3

i 2

j 1

k 0

l 4



Page 14

1a 2

b 6

c 7

d $6 + 3 = 9$

Page 15

1a 4

b 4

1c 1

d 6

Page 16

1a $5 + 1 = 6$

b $2 + 2 = 4$

c $6 + 2 = 8$

d $7 + 2 = 9$

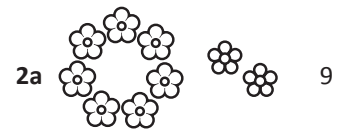
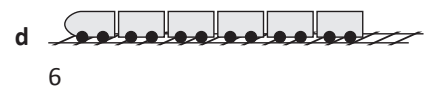
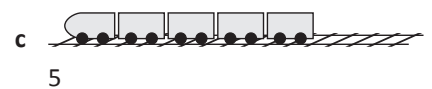
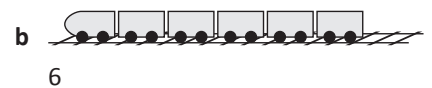
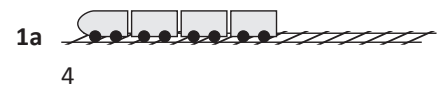
e $3 + 2 = 5$

f $4 + 2 = 6$

g $5 + 2 = 7$

h $9 + 1 = 10$

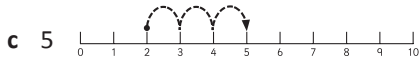
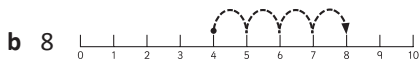
Page 17



Series B – Operations with Number

Page 18

1a 4



2a $1 + 4 = 5$

b $2 + 4 = 6$

c $7 + 2 = 9$

Page 19

1a $2 + 5 = 7$

$5 + 2 = 7$

b $1 + 7 = 8$

$7 + 1 = 8$

c $3 + 6 = 9$

$6 + 3 = 9$

d $3 + 7 = 10$

$7 + 3 = 10$

Page 20

1a $2 + 4 = 6$

b $6 + 3 = 9$

c $5 + 2 = 7$

Page 21

1a $2 + 6 = 8$

b $5 + 1 = 6$

c $1 + 4 = 5$

d $2 + 7 = 9$

e $4 + 3 = 7$

2 Answers will vary.

Page 22

1 how many altogether?
add them together
plus
add
what is the total?
sum of
and
+
=
more

2a $3 + 4 = 7$

There are 7 socks altogether.

b There are 2 white shirts.

$5 + 2 = 7$

There are 7 shirts altogether.

Page 23

1 Drawings will vary.

a
Draw 4 more flowers.

$1 + 4 = 5$

There are 5 flowers altogether.

Page 23

1b
Draw 4 more strawberries in the bowl.

$3 + 4 = 7$

There are 7 strawberries in total.

c
Draw 6 more stars.

$4 + 6 = 10$

There are 10 stars altogether.

Page 24

1a $4 + 3 = 7$

b

$5 + 3 = 8$

c

$7 + 3 = 10$

Page 26

1 Drawings will vary.

a

$3 + 2 = 5$ She bought 2 more fish.

b

$3 + 6 = 9$ She ate 6 more cakes during the party.

c

$5 + 5 = 10$ He had 5 dinosaurs to begin with.

Page 27

Answers will vary.

Page 28

1a $12 + 3 = 15$

b $14 + 5 = 19$

c $9 + 7 = 16$

d $11 + 8 = 19$

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Pages 29–30

What to do

Observe students.

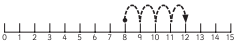
Page 31


1a $9 + 2 = 11$ 

b $8 + 5 = 13$ 

c $7 + 7 = 14$ 

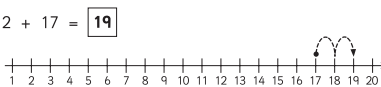
d $11 + 2 = 13$ 

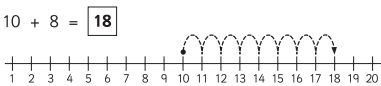
2a  $8 + 4 = 12$

b  $7 + 6 = 13$

Page 32

1a $9 + 4 = 13$ 

b $2 + 17 = 19$ 

c $10 + 8 = 18$ 

Page 33

1a 9

b 11

c 9

d 5

e 9

f 12

2 $13 + 1 = 14$

$12 + 2 = 14$

$11 + 3 = 14$

$10 + 4 = 14$

$9 + 5 = 14$

$8 + 6 = 14$

$7 + 7 = 14$

$6 + 8 = 14$

$5 + 9 = 14$

$4 + 10 = 14$

$3 + 11 = 14$

$2 + 12 = 14$

$1 + 13 = 14$

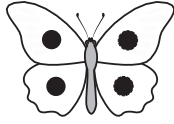
$14 + 0 = 14$

$0 + 14 = 14$

Page 34



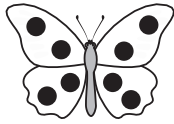
1a $1 + 1 = 2$



b $2 + 2 = 4$



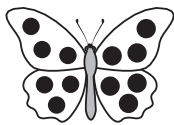
c $3 + 3 = 6$



d $4 + 4 = 8$



e $5 + 5 = 10$



f $6 + 6 = 12$



2a $4 + 4 = 8$



b $2 + 2 = 4$



2c $3 + 3 = 6$



d $1 + 1 = 2$

Page 35

1 Answers will vary and may include:

Dog $1 + 1 = 2$

Buttons $3 + 3 = 6$

Sweets $4 + 4 = 8$

Shoes $2 + 2 = 4$

Page 36

What to do

Observe students.

What to do next

Observe students.

Page 37

What to do

Observe students.

What to do next

Answers will vary.

Page 38

1a 13

b 14

c 12

d 19

e 11

f 18

g 17

h 16

i 15

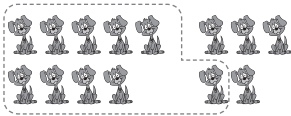
2a–c Answers will vary.

Series B – Operations with Number

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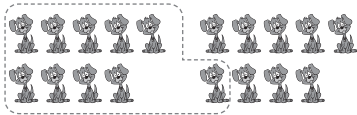
1a 14

b 14



$9 + 5 = 14$
 $9 + 1 = 10$
 $10 + 4 = 14$

c 18



$9 + 9 = 18$
 $9 + 1 = 10$
 $10 + 8 = 18$

Page 40

1a $9 + 3 = 12$ 10 in one frame
2 in the other

b $9 + 4 = 13$ 10 in one frame
3 in the other

c $9 + 6 = 15$ 10 in one frame
5 in the other

Page 41

1a $8 + 5 = 13$ 10 in one frame
3 in the other

b $7 + 6 = 13$ 10 in one frame
3 in the other

c $9 + 4 = 13$ 10 in one frame
3 in the other

2a $8 + 5 = 13$

b $8 + 7 = 15$

c $9 + 8 = 17$

Page 42

1a $15 + 4 = 19$

b $6 + 11 = 17$

c $13 + 6 = 19$

d $4 + 14 = 18$

2a 19

b 16

c 17

d 16

Page 43

What to do

Observe students.

Page 44

1a $12 + 7 = 19$

b $15 + 4 = 19$

c $7 + 9 = 16$

Page 45

1a $6 + 8 = 14$ He bought 2 more puppies.

b $13 + 4 = 17$ She was given 4 more cars.

c $8 + 9 = 17$ Their teacher bought 9 more.

Page 46

What to do

Observe students.

Page 47

1b

c

d

2a $5 - 3 = 2$

b $4 - 1 = 3$

c $7 - 4 = 3$

d $10 - 6 = 4$

Page 48

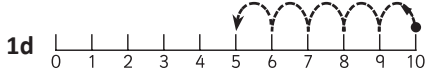
1a $5 - 3 = 2$

b $9 - 2 = 7$

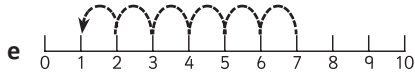
c $4 - 2 = 2$

Series B – Operations with Number

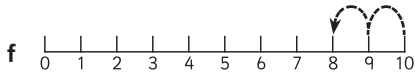
Page 48



$$10 - 5 = \boxed{5}$$



$$7 - 6 = \boxed{1}$$

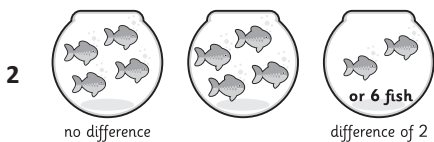


$$10 - 2 = \boxed{8}$$

Page 49

- 1a 3
b 1
c 1
d 4

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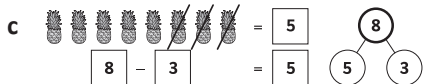


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What to do

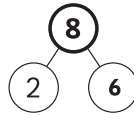
Observe students.

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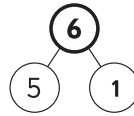


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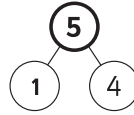
1a $8 - \boxed{6} = 2$



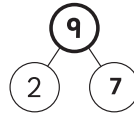
b $6 - \boxed{1} = 5$



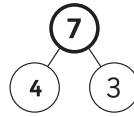
c $5 - \boxed{4} = \boxed{1}$



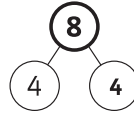
d $9 - \boxed{2} = \boxed{7}$



e $7 - \boxed{3} = \boxed{4}$



f $\boxed{8} - \boxed{4} = \boxed{4}$



Page 54

1a Answers will vary.
Answers may included: subtract, minus, -, difference, less.

2a $3 - 1 = \boxed{2}$

Ali now has 2 socks.



$$7 - \boxed{3} = \boxed{4}$$

There are 4 shirts left.

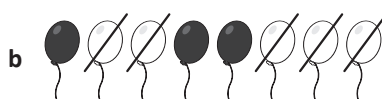
Page 55



There are 7 cats altogether.

$$7 - \boxed{3} = \boxed{4}$$

There are 4 white cats.



5 of them are white.

$$\boxed{8} - \boxed{5} = \boxed{3}$$

She has 3 black balloons.

Page 56



$$6 - 3 = \boxed{3}$$

There are 3 petals left.



$$\boxed{4} - \boxed{2} = \boxed{2}$$

There are 2 pineapples left.



$$\boxed{9} - \boxed{4} = \boxed{5}$$

There are 5 stars left.

Page 57

1 Drawings will vary.

a $10 - 6 = \boxed{4}$ There are 4 blue balloons.

b $\boxed{8} - \boxed{2} = \boxed{6}$ There are 6 footballs.

c $\boxed{7} - \boxed{5} = \boxed{2}$ There are 2 red apples.

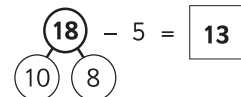
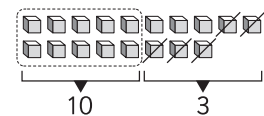
Pages 58–59

What to do

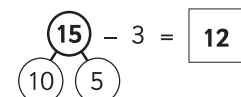
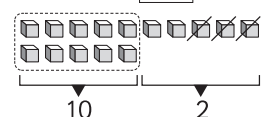
Observe students.

Page 60

1a $18 - 5 = \boxed{13}$



b $15 - 3 = \boxed{12}$



Series B – Operations with Number

Page 60

1c $19 - 9 = 10$

$19 - 9 = 10$

d $20 - 10 = 10$

$20 - 10 = 10$

Page 61

1 Drawings will vary.

- a 12
- b 14
- c 10
- d 11
- e 11

Page 62

1a $18 - 9 = 9$

$18 - 9 = 9$

b $15 - 7 = 8$

$15 - 7 = 8$

Page 63

1a $16 - 3 = 13$

b $19 - 5 = 14$

c $14 - 6 = 8$

1d $17 - 3 = 14$

Page 64

1a $19 - 4 = 15$

There are 15 cubes left.

b $16 - 5 = 11$

There are 11 butterflies left.

Page 65

1 $14 - 3 = 11$

There are 11 balloons left.

2 Drawings will vary.

a $18 - 6 = 12$

Lucy has 12 cubes left.

b $17 - 6 = 11$

There are 11 red counters.

Page 66

1 Drawings will vary.

a $20 - 10 = 10$ There are 10 red balloons.

b $17 - 6 = 11$ There are 11 apples left.

c $16 - 5 = 11$ There are 11 sharp pencils.

Page 67

1a $4 - 2 = 2$

b $8 - 4 = 4$

c $6 - 3 = 3$

d $12 - 6 = 6$

2

$6 + 6 = 12$	$6 - 3 = 3$
$5 + 5 = 10$	$8 - 4 = 4$
$3 + 3 = 6$	$10 - 5 = 5$
$4 + 4 = 8$	$12 - 6 = 6$

Page 68

1a $3 + 2 = 5$

$5 - 2 = 3$
$5 - 3 = 2$

b $4 + 2 = 6$

$6 - 4 = 2$
$6 - 2 = 4$

c $5 + 3 = 8$

$8 - 5 = 3$
$8 - 3 = 5$

2 $4 + 6 = 10$

$10 - 4 = 6$
$10 - 6 = 4$

Page 69

What to do
Teacher check.

Page 70

1a $3 + 4 = 7$

$4 + 3 = 7$

$7 - 4 = 3$

$7 - 4 = 3$

b $4 + 2 = 6$

$2 + 4 = 6$

$6 - 2 = 4$

$6 - 4 = 2$

Page 71

1a $2 + 6 = 8$

$6 + 2 = 8$

$8 - 6 = 2$

$8 - 2 = 6$

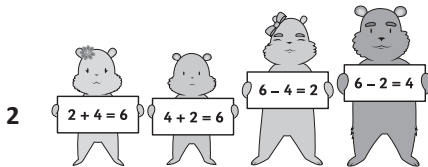
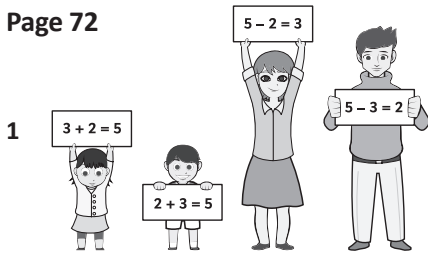
Series B – Operations with Number

Page 71

1b $7 + 3 = 10$
 $3 + 7 = 10$
 $10 - 7 = 3$
 $10 - 3 = 7$

c $7 + 2 = 9$
 $2 + 7 = 9$
 $9 - 7 = 2$
 $9 - 2 = 7$

Page 72



Pages 73–74

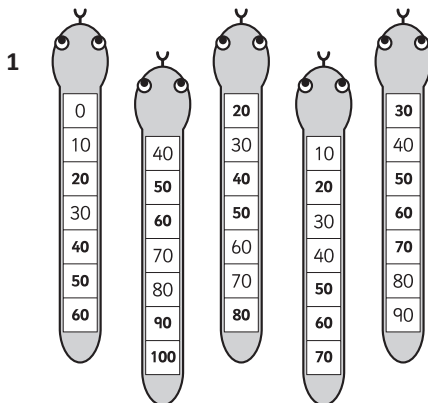
What to do

Observe students.

What to do next

Answers will vary.

Page 75



Page 76

- 1a 20
 b 40
 c 30
 d 50
 e 50
 f 50
 g 22
 h 48
 i 37
 j 45
 k 41
 l 43

Page 77

- 1a 30
 b 20
 c 10
 d 10
 e 10
 f 20
 g 13
 h 19
 i 35
 j 24
 k 17
 l 12

Page 78

1a

tens	ones
2	5

2 tens + 5 ones = 25

b

tens	ones
4	8

4 tens + 8 ones = 48

1c

tens	ones
3	4

3 tens + 4 ones = 34

d

tens	ones
2	0

2 tens + 0 ones = 20

Page 79

- 1a 36
 b 17
 c 44
 d 26
 e 43
 f 39
 2a 45
 b 49
 c 36
 d 27
 e 48
 f 38

3

	+ 1	+ 10	+ 11
12	13	22	23
28	29	38	39
33	34	43	44
40	41	50	51

Page 80

- 1a 24
 b 11
 c 38
 d 21
 e 34
 f 42
 2a 40
 b 24
 c 12

Series B – Operations with Number

Page 80

2d 13

e 23

f 31





















3		- 1	- 10	- 11
23	22	13	12	
49	48	39	38	
31	30	21	20	
24	23	14	13	

Page 81

What to do

Teacher check.

Page 82

Page 83

What to do

Player 1

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

$$\boxed{6} + 4 = 10$$

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

$$\boxed{6} - 2 = 4$$

$$\boxed{3} - 1 = 2$$

Player 2

$$\boxed{3} + 2 = 5$$

$$\boxed{5} + 6 = 11$$

$$\boxed{4} + 1 = 5$$

$$\boxed{6} - 2 = 4$$

$$7 - \boxed{2} = 5$$

Player 3

$$\boxed{4} + 4 = 8$$

$$\boxed{6} + 5 = 11$$

$$\boxed{1} + 5 = 6$$

$$\boxed{3} - 1 = 2$$

$$8 - \boxed{2} = 6$$

Player 4

$$\boxed{5} + 4 = 9$$

$$\boxed{4} + 3 = 7$$

$$\boxed{1} + 5 = 6$$

$$\boxed{6} - 3 = 3$$

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

Page 84

What to do

Observe students.

What to do next

Answers will vary.

Page 85

What to do

Answers will vary.

Page 86

What to do

Observe students.

What to do next

My facts:

$$1 + 5 = 6$$

$$2 + 3 + 1 = 6$$

$$2 + 4 = 6$$

$$2 + 3 + 1 = 6$$

$$4 + 2 + 1 = 7$$

$$4 + 3 = 7$$



$$5 + 2 = 7$$

$$5 + 3 = 8$$



$$4 + 3 + 1 = 8$$

$$5 + 2 + 1 = 8$$


Page 87

- 1a Ellie eats 3 . Then she eats 4 more. How many  does she eat altogether?



$$\boxed{3} + \boxed{4} = \boxed{7}$$

- b Thomas had 8 . 5 sailed away. How many  did he have left?

$$\boxed{8} - \boxed{5} = \boxed{3}$$

- c There are 20 . 6 roll away. How many  are left?

$$\boxed{20} - \boxed{6} = \boxed{14}$$

- d Bronte has 3 . Lucy has 9 . How many teddies do they have altogether?

$$\boxed{3} + \boxed{9} = \boxed{12}$$

Page 88

1a $10 - 3 = 7$

b $6 + 7 = 13$

c Answers will vary.

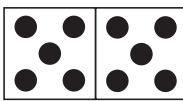
Page 89

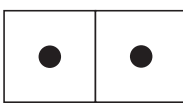
1a =

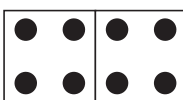
b ≠

c =

d ≠

2a 

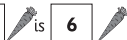
b 

c 

3 Answers will vary.

Series B – Operations with Number

Page 90

1a bunches of  is altogether.

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

$$2 \times 3 = \boxed{6}$$

b bags of  is altogether.

$$3 + 3 + 3 + 3 + 3 = \boxed{15}$$

$$5 \times 3 = \boxed{15}$$

Page 91

1a plates of  is altogether.

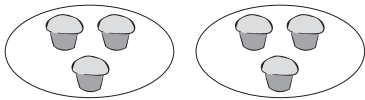
$$2 + 2 + 2 + 2 = \boxed{8}$$

$$4 \times 2 = \boxed{8}$$

b bowl of  is altogether.

$$1 \times 5 = \boxed{5}$$

2

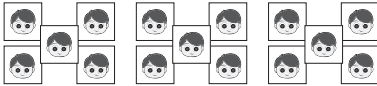


groups of  is altogether

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

$$2 \times 3 = \boxed{6}$$

Page 92

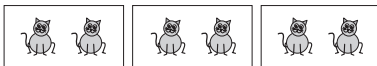
1a  altogether.

groups of  is altogether.

$$5 + 5 + 5 = \boxed{15}$$

$$3 \times 5 = \boxed{15}$$

b



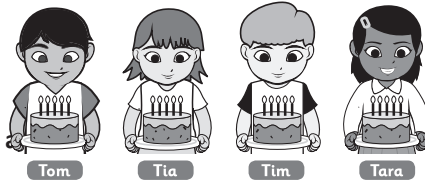
groups of  is altogether.

$$\boxed{2} + \boxed{2} + \boxed{2} = \boxed{6}$$

$$3 \times 2 = \boxed{6}$$

Page 93

What to do



b 20

4 groups of 5 is 20

What to do next

Answers will vary, but could include counting in 1s and 5s.

Page 94

1a rows of is

b groups of is

c rows of is

d groups of is

2 Drawings will vary.

a 
How many flowers?

b 
How many flowers?

Page 95

What to do

a 5 groups of 3 is 15

b 10 groups of 2 is 20

c 3 rows of 5 is 15

Page 96

1a rows of is

$$\boxed{3} \times \boxed{4} = \boxed{12}$$

$$4 + 4 + 4 = \boxed{12}$$

b rows of is

$$\boxed{2} \times \boxed{4} = \boxed{8}$$

$$\boxed{4} + \boxed{4} = \boxed{8}$$

2  3 rows of 3 is
 $3 \times 3 = \boxed{9}$
 $\boxed{3} + \boxed{3} + \boxed{3} = \boxed{9}$

Page 97

What to do

6 groups of 2 $6 \times 2 = \boxed{12}$ $2+2+2+2+2+2 = \boxed{12}$	3 groups of 3 $3 \times 3 = \boxed{9}$ $3+3+3 = \boxed{9}$	2 groups of 4 $2 \times 4 = \boxed{8}$ $4+4 = \boxed{8}$
4 groups of 3 $4 \times 3 = \boxed{12}$ $3+3+3+3 = \boxed{12}$	1 group of 7 $1 \times 7 = \boxed{7}$ $7 = \boxed{7}$	2 groups of 5 $2 \times 5 = \boxed{10}$ $5+5 = \boxed{10}$
2 groups of 8 $2 \times 8 = \boxed{16}$ $8+8 = \boxed{16}$	3 groups of 2 $3 \times 2 = \boxed{6}$ $2+2+2 = \boxed{6}$	5 groups of 1 $5 \times 1 = \boxed{5}$ $1+1+1+1+1 = \boxed{5}$
1 group of 5 $1 \times 5 = \boxed{5}$ $5 = \boxed{5}$	4 groups of 2 $4 \times 2 = \boxed{8}$ $2+2+2+2 = \boxed{8}$	2 groups of 2 $2 \times 2 = \boxed{4}$ $2+2 = \boxed{4}$

Page 98

What to do

Observe students.

What to do next

Answers will vary.

Page 99

1a X

b

c

d X

Page 100

What to do

3

What to do next

a 2

b 6

Page 101

What to do

a 2; 2; 2

b 2; 2; 2

c 2; 2; 2

Page 102

1a 3 

b 4 

c 5 

2 Twelve owls

Page 103

a 6

b 12

c 3

d 4

1 Write an addition and a subtraction sentence for each picture.

a



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

$$\square - \square = \square$$

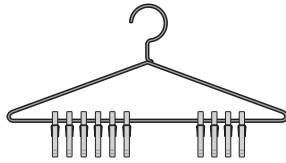
b



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

$$\square - \square = \square$$

c



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

$$\square - \square = \square$$

d

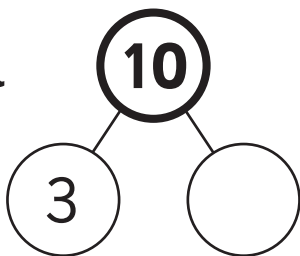


$$\square + \square = \square$$

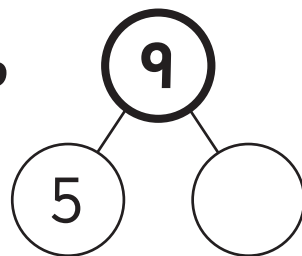
$$\square - \square = \square$$

2 Complete these part-whole models.

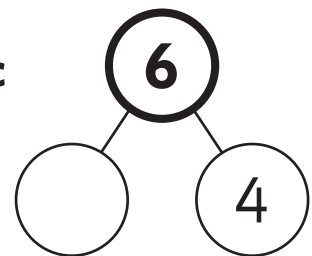
a



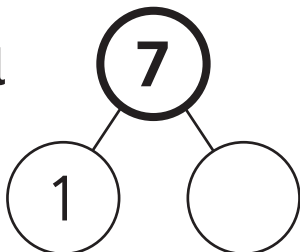
b



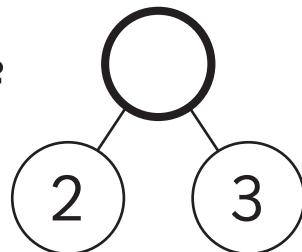
c



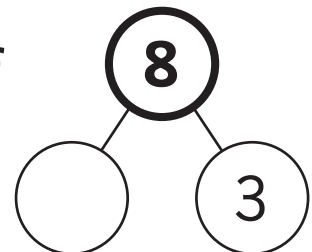
d



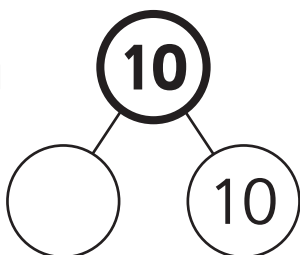
e



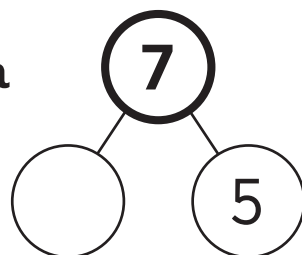
f



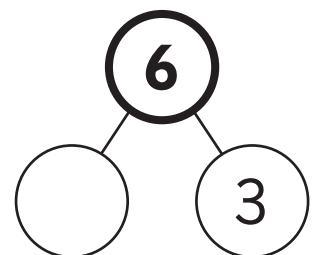
g



h



i



1 Finish the facts.

a $0 + \square = 10$

b $3 + \square = 7$

c $1 + \square = 9$

d $0 + \square = 5$

e $1 + \square = 6$

f $4 + \square = 8$

g $9 - \square = 7$

h $8 - \square = 5$

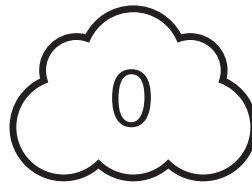
i $7 - \square = 4$

j $10 - \square = 6$

k $5 - \square = 2$

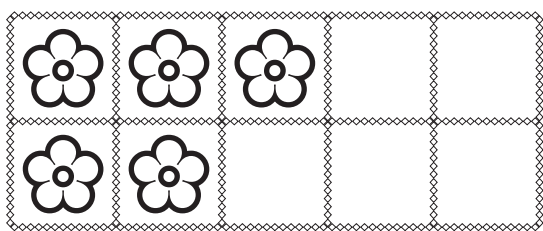
l $6 - \square = 0$

2 You will need 6 different coloured pencils for this activity.
Colour match the clouds that add to ten.

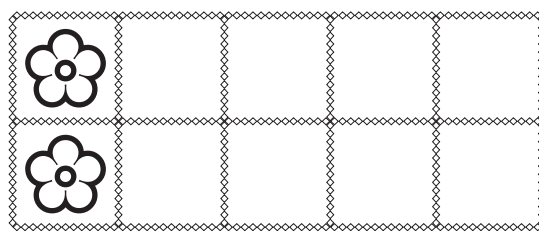


Skills and understandings	Not yet	Kind of	Got it
• Uses number bonds to write addition facts			
• Uses number bonds to write subtraction facts			
• Completes a part-whole model			

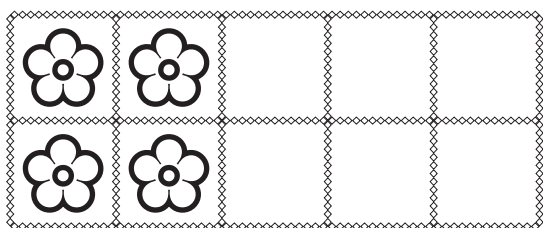
1 Draw the extra flowers. Complete the number facts.



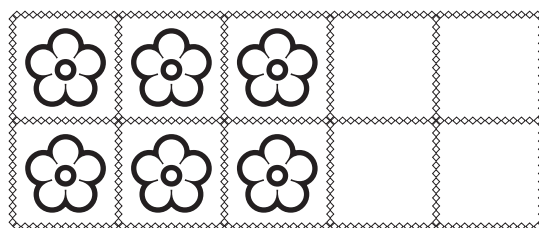
a $5 + 4 = \square$



b $2 + 3 = \square$



c $4 + 1 = \square$



d $6 + 2 = \square$

2 Hop along the number line and finish the number fact.

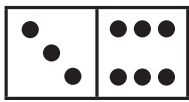
a $3 + 4 = \square$

b $5 + 3 = \square$

c $8 + 2 = \square$

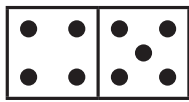
Skills and understandings	Not yet	Kind of	Got it
• Uses strategy of choice to complete addition facts to 10			

1 Use turnarounds to solve these. Write the matching facts.

a 

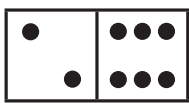
$$3 + 6 = \square$$

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

b 

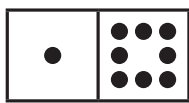
$$4 + 5 = \square$$

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

c 

$$2 + 6 = \square$$

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

d 

$$1 + 8 = \square$$

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

2 Practise your addition combinations to 10.

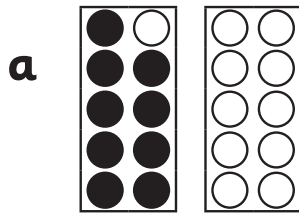
a $5 + \square = 10$ **b** $8 + \square = 10$ **c** $1 + \square = 10$

3 Solve these problems. Write the missing numbers.

a $2 + \square = 6$ **b** $3 + \square = 9$
c $\square + 7 = 10$ **d** $4 + \square = 7$

Skills and understandings	Not yet	Kind of	Got it
• Creates turnaround facts			
• Completes addition combinations to 10			
• Finds missing addends and completes number facts to 10			

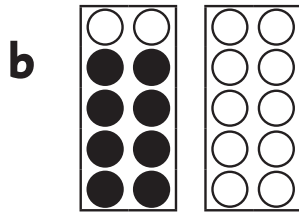
1 Colour more counters to solve these.



$9 + 8 = \square$

in one frame

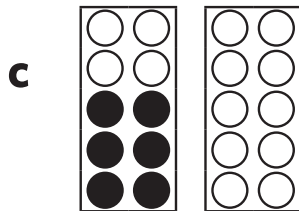
in the other



$8 + 7 = \square$

in one frame

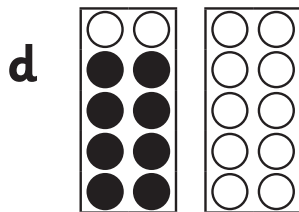
in the other



$6 + 5 = \square$

in one frame

in the other



$8 + 6 = \square$

in one frame

in the other

2 Complete the number facts.

a $10 + 3 = \square$

b $9 + 5 = \square$

c $4 + 7 = \square$

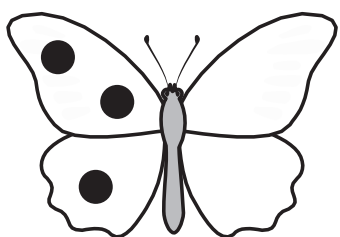
d $7 + 9 = \square$

e $12 + 5 = \square$

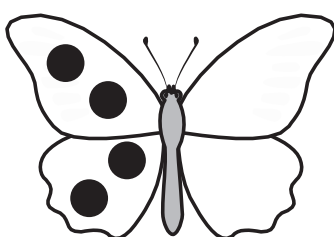
f $18 + 2 = \square$

Skills and understandings	Not yet	Kind of	Got it
• Uses strategy of choice to complete addition facts to 20			

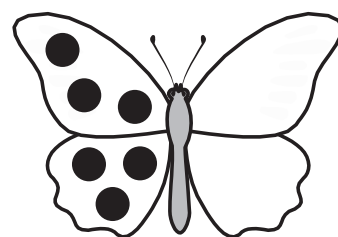
1 Draw the same number of spots of spots on the other side. Write the number fact to match.



a + =



b + =



c + =

2 Read the story and show your working. Andrea drank **5** glasses of water in the morning and **3** glasses in the afternoon. How many glasses of water did she drink altogether?

Write the number fact.

=

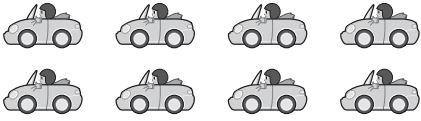
Skills and understandings	Not yet	Kind of	Got it
• Recalls doubles facts			
• Models word problems and writes number facts to match			

Subtraction within 10

Name _____

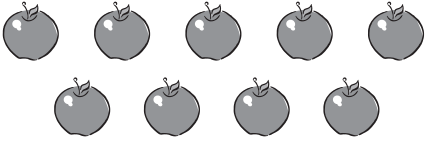
1 Cross out pictures to match these number facts.

a



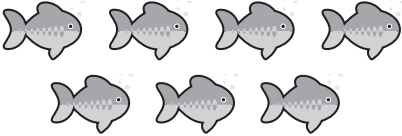
$8 - 4 = 4$

b




$9 - 3 = 6$

c



$7 - 3 = 4$

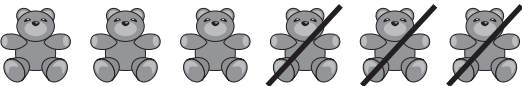
d



$5 - 2 = 3$

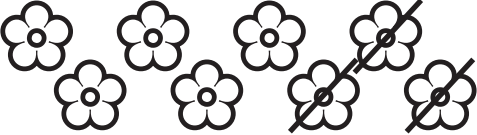
2 Show these picture stories as number facts.

a




- =

b




- =

c



- =

d



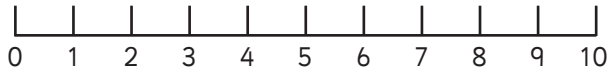
- =

Skills and understandings	Not yet	Kind of	Got it
• Demonstrates subtraction as take away			

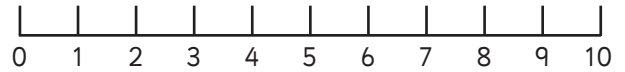
Subtraction within 10

Name _____

1 Count back using the number line. Finish the number facts.

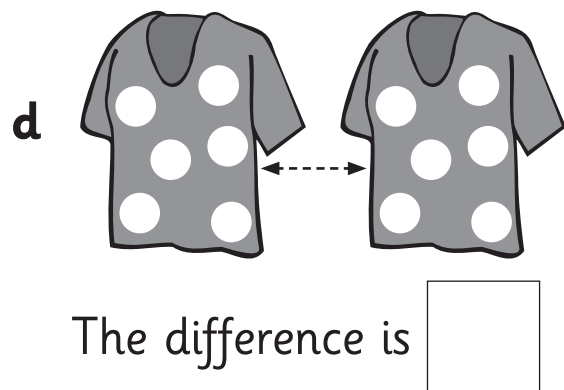
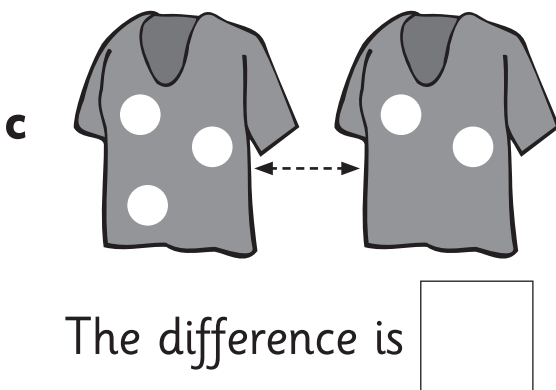
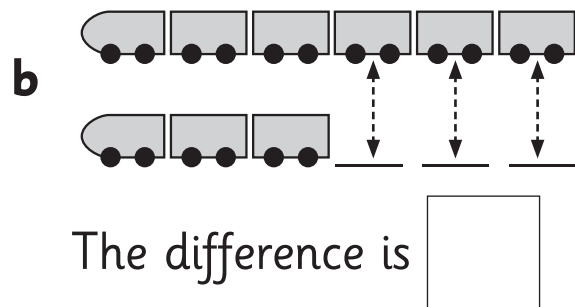
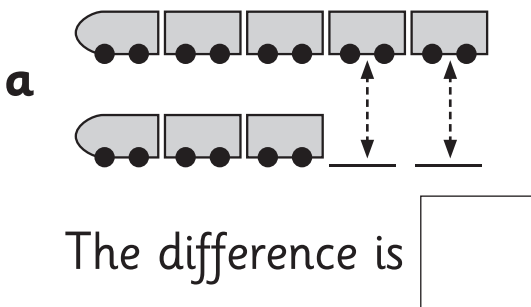


a $7 - 2 = \square$




b $9 - 4 = \square$

2 What is the difference?




Skills and understandings	Not yet	Kind of	Got it
• Models subtraction facts on a number line by counting back			
• Finds the difference using pictorial representations			


1 Finish the addition fact. Can you find 2 matching subtraction facts?

a  $10 - \square = \square$


$3 + \overset{\cdot\cdot\cdot}{7} = \square$ $10 - \square = \square$

b  $\square - \square = \square$

$4 + \square = \square$ $\square - \square = \square$

c  $\square - \square = \square$

$5 + \square = \square$ $\square - \square = \square$

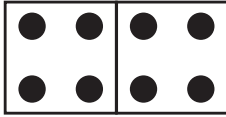
d  $\square - \square = \square$

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

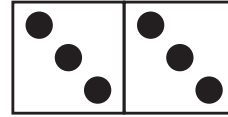
Skills and understandings	Not yet	Kind of	Got it
<ul style="list-style-type: none"> Matches addition facts to a picture and writes related subtraction facts 			

1 Use your doubles facts to help solve these subtraction problems.

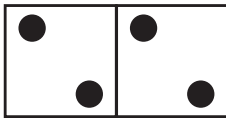
a $8 - 4 = \square$



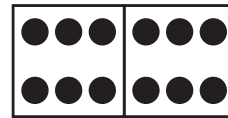
b $6 - 3 = \square$




c $4 - 2 = \square$



d $12 - 6 = \square$



2 Finish and match the addition and subtraction doubles number facts.

$2 + 2 = \square$ 

$6 - 3 = \square$

$5 + 5 = \square$

$8 - 4 = \square$

$4 + 4 = \square$

$10 - 5 = \square$

$3 + 3 = \square$

$4 - 2 = \square$

Skills and understandings	Not yet	Kind of	Got it
• Matches addition doubles facts with subtraction doubles facts			
• Recalls doubles facts			

Subtraction within 20

Name _____

1 Solve:

a $10 - 8 =$

b $10 - 7 =$

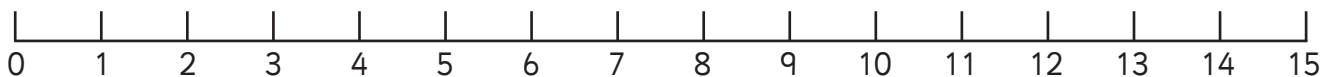
c $10 - 5 =$

d $10 - 6 =$

e $10 - 1 =$

f $10 - 3 =$

2 Complete these subtraction facts. You can use the number line to help you.



a $15 - 10 =$

b $15 - 8 =$

c $15 - 5 =$

d $15 - 2 =$

e $14 - 3 =$

f $12 - 5 =$

g $13 - 3 =$

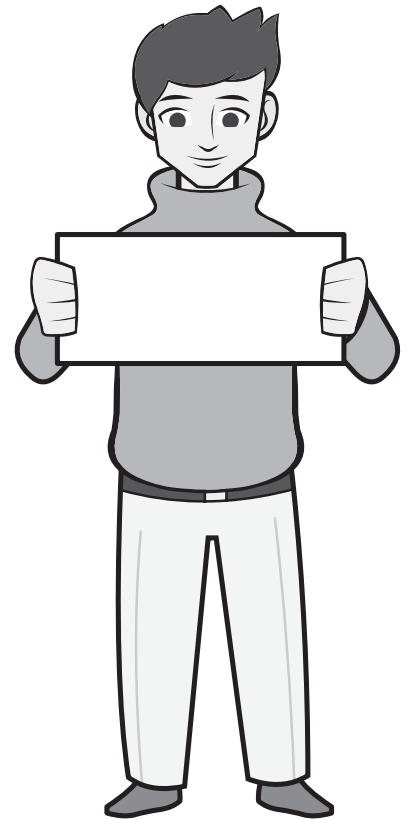
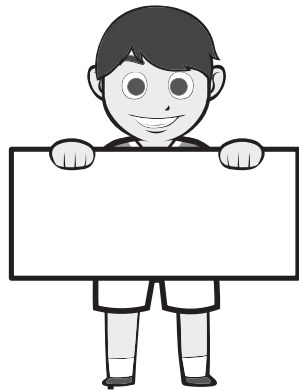
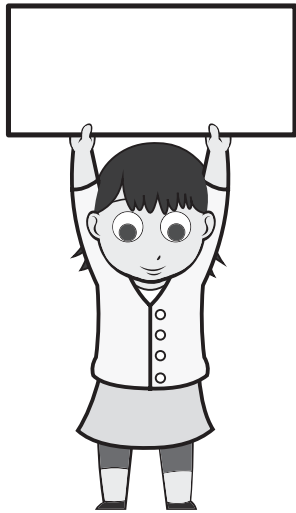
h $11 - 7 =$

Skills and understandings	Not yet	Kind of	Got it
• Recalls subtraction from 10 facts			
• Subtracts from numbers to 15			

Addition and subtraction

Name _____

- 1 This family only use the numbers 4, 2 and 6.
Give each family member a fact.



- 2 Make a fact family for each set of numbers.

a

3

6

9

	+		=	
	+		=	
	-		=	
	-		=	

b

6

4

10

	+		=	
	+		=	
	-		=	
	-		=	

Skills and understandings	Not yet	Kind of	Got it
• Writes a fact family for a set of 3 numbers			

Addition and subtraction

Name _____

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

1 Count on 1 to finish these number facts.

a $27 + 1 = \square$ **b** $26 + 1 = \square$ **c** $33 + 1 = \square$

2 Count on 10 to finish these number facts.

a $23 + 10 = \square$ **b** $19 + 10 = \square$ **c** $28 + 10 = \square$

3 Count back 1 or 2 to finish these number facts.

a $35 - 1 = \square$ **b** $22 - 2 = \square$ **c** $49 - 1 = \square$

4 Count back 10 to finish these number facts.



a $43 - 10 = \square$ **b** $21 - 10 = \square$ **c** $37 - 10 = \square$

Skills and understandings	Not yet	Kind of	Got it
• Solves addition facts by counting on 1, 2 and 10, 20–50			
• Solves subtraction facts by counting back 1, 2 and 10, 20–50			



Addition and subtraction

Name _____



1 Read each word problem. Decide if you need to add or subtract and write a number fact to match.

a Ben eats 6 .
Then he eats 4 more.
How many  does he eat altogether?



=

b Mia bought 5 .
She gave 3 away.
How many  does she have left?

=

c There are 20 .
9 roll away.
How many  are left?

=

d Gretel has 5 .
Lee has 8 .
How many bananas do they have altogether?

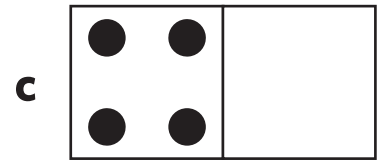
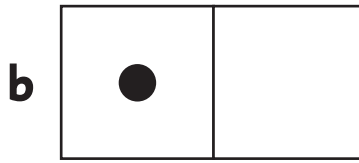
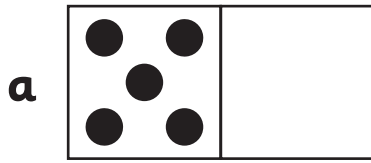
=

Skills and understandings	Not yet	Kind of	Got it
• Identifies key words to choose correct operation			
• Solves simple word problems			

Multiplication

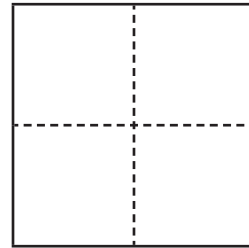
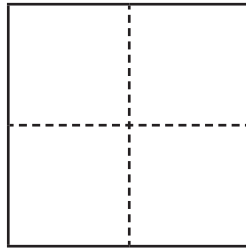
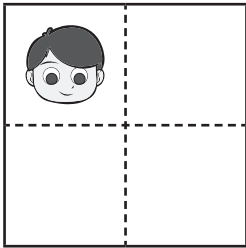
Name _____

1 Draw dots on the right side of the dominoes to make the sides equal.



2 Draw and finish the number fact.

a Draw 4 faces in each window.



How many faces altogether?

groups of  is  altogether.

b Draw 2 cats on each mat.



How many cats are there?

groups of  is  altogether.


Skills and understandings	Not yet	Kind of	Got it
• Makes equal groups and counts to find totals			

Multiplication

Name _____


1 How many?

a



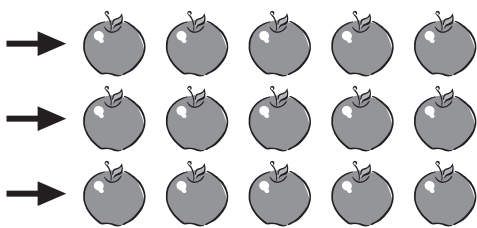
rows of is

b



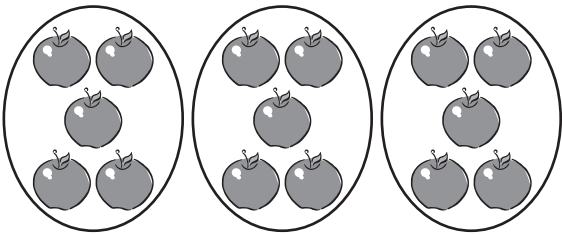
groups of is

c



rows of is

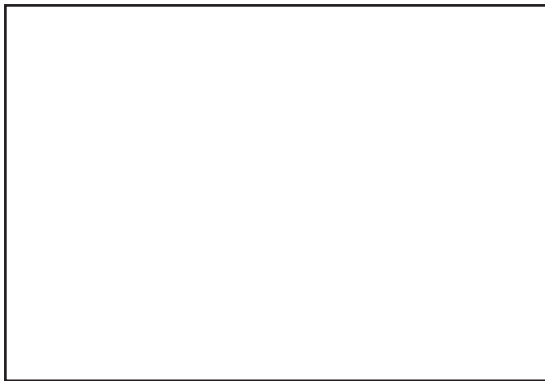
d



groups of is

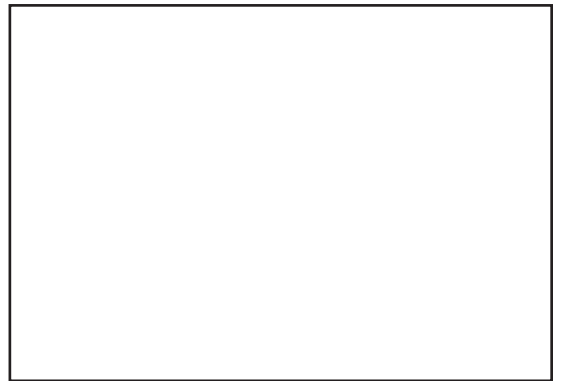
2 Draw:

a 2 rows of 5 circles



How many circles?

b 3 groups of 4 triangles



How many triangles?

Skills and understandings	Not yet	Kind of	Got it
• Solves simple multiplication problems using pictorial representations or concrete objects			



1 Draw pictures to solve these fair share problems.

a There are 4  and 12 .

How many  does each  get?

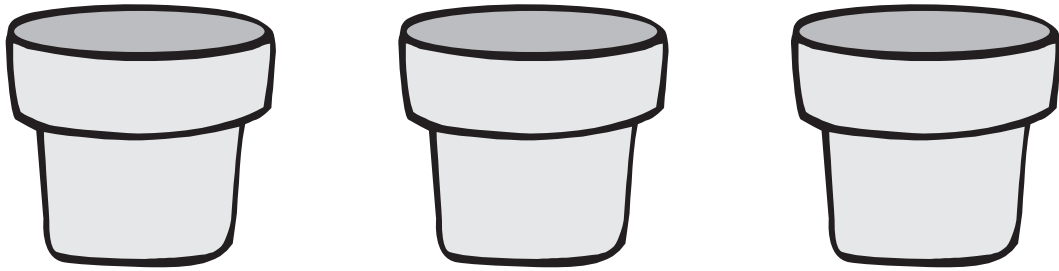
b There are 10  and 5 .

How many  does each  get?

2 Share 6  between 2 . Can we make fair shares? _____

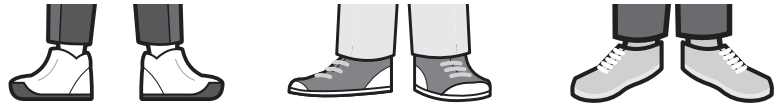
Skills and understandings	Not yet	Kind of	Got it
<ul style="list-style-type: none"> Makes fair shares, using pictorial representations or concrete objects 			

1 You have 12 flowers. Draw flowers to show how you would share the flowers fairly between the pots.



2 Circle groups of 2 feet.

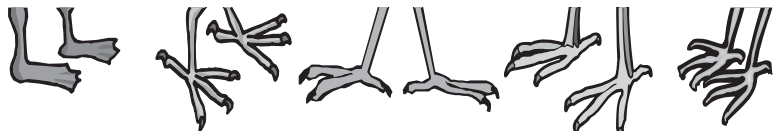
a How many boys?



b How many girls?



c How many birds?



Skills and understandings	Not yet	Kind of	Got it
• Solves simple sharing and grouping problems			

Series B – Operations with Number – Student Progress Record

Name _____ Class _____ Date _____

What went well: _____

What I need to improve: _____



Series B – Operations with Number – Student Progress Record

Name _____ Class _____ Date _____

What went well: _____

What I need to improve: _____

Series B – Operations with Number

ASSESSMENT ANSWERS

Page 11

1a $2 + 3 = 5$

$5 - 2 = 3$

b $2 + 6 = 8$

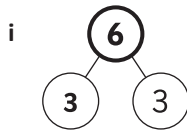
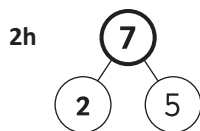
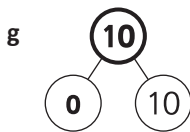
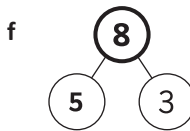
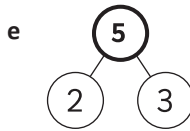
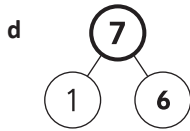
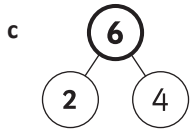
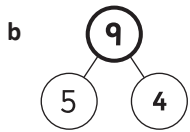
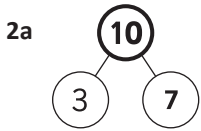
$8 - 2 = 6$

c $6 + 4 = 10$

$10 - 6 = 4$

d $5 + 4 = 9$

$9 - 5 = 4$



Page 12

1a 10

b 4

c 8

d 5

e 5

f 4

g 2

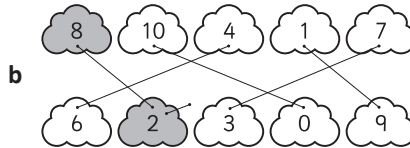
h 3

i 3

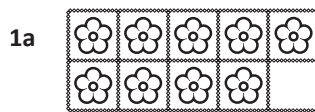
j 4

k 3

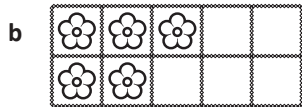
l 6



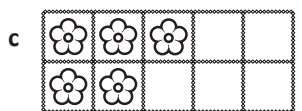
Page 13



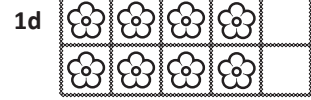
$5 + 4 = 9$



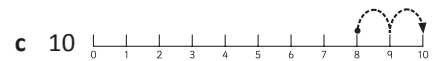
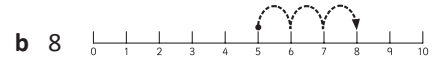
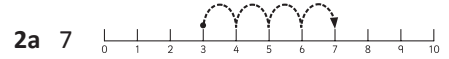
$2 + 3 = 5$



$4 + 1 = 5$



$6 + 2 = 8$



Page 14

1a $3 + 6 = 9$

$3 + 6 = 9$

b $4 + 5 = 9$

$4 + 5 = 9$

c $2 + 6 = 8$

$2 + 6 = 8$

d $1 + 8 = 9$

$1 + 8 = 9$

2a 5

b 2

c 9

3a 4

b 6

c 3

d 3

Page 15

1a $9 + 8 = 17$ 10 in one frame
 7 in the other

b $8 + 7 = 15$ 10 in one frame
 5 in the other

c $6 + 5 = 11$ 10 in one frame
 1 in the other

d $8 + 6 = 14$ 10 in one frame
 4 in the other

Series B – Operations with Number

Page 15

- 2a 13
b 14
c 11
d 16
e 17
f 20

Page 16



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



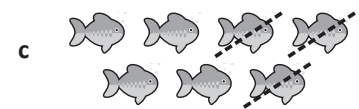
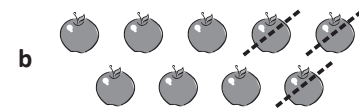
$$\boxed{4} + \boxed{4} = \boxed{8}$$



$$\boxed{6} + \boxed{6} = \boxed{12}$$

2 $\boxed{5} + \boxed{3} = \boxed{8}$

Page 17



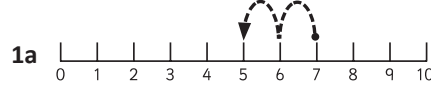
2a $\boxed{6} - \boxed{3} = \boxed{3}$

b $\boxed{8} - \boxed{3} = \boxed{5}$

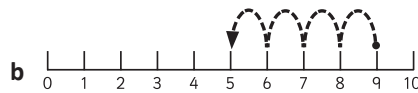
2c $\boxed{10} - \boxed{5} = \boxed{5}$

d $\boxed{6} - \boxed{4} = \boxed{2}$

Page 18



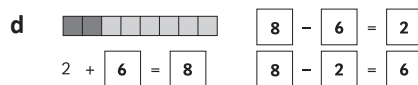
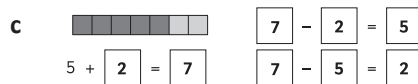
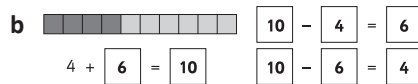
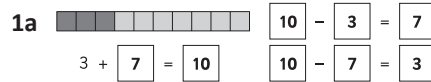
$$7 - 2 = \boxed{5}$$



$$9 - 4 = \boxed{5}$$

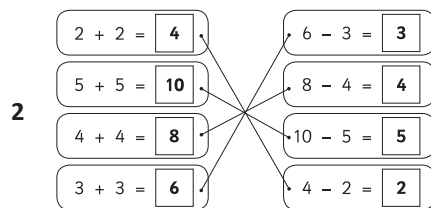
- 2a 2
b 3
c 1
d 0

Page 19



Page 20

- 1a 4
b 3
c 2
d 6

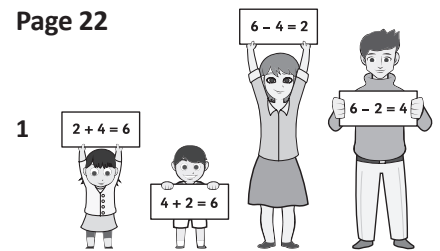


Page 21

- 1a 2
b 3
c 5
d 4
e 9
f 7

- 2a 5
b 7
c 10
d 13
e 11
f 7
g 10
h 4

Page 22



2a $\boxed{3} + \boxed{6} = \boxed{9}$
 $\boxed{6} + \boxed{3} = \boxed{9}$
 $\boxed{9} - \boxed{3} = \boxed{6}$
 $\boxed{9} - \boxed{6} = \boxed{3}$

b $\boxed{6} + \boxed{4} = \boxed{10}$
 $\boxed{4} + \boxed{6} = \boxed{10}$
 $\boxed{10} - \boxed{6} = \boxed{4}$
 $\boxed{10} - \boxed{4} = \boxed{6}$

Page 23

- 1a 28
b 27
c 34

Series B – Operations with Number

Page 23

2a 33

b 29

c 38

3a 34

b 20

c 48

4a 33

b 11

c 27

Page 24

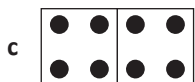
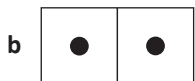
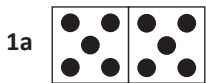
1a $6 + 4 = 10$

b $5 - 3 = 2$

c $20 - 9 = 11$

d $5 + 8 = 13$

Page 25



3 groups of 4 is 12 altogether.



3 groups of 2 is 6 altogether.

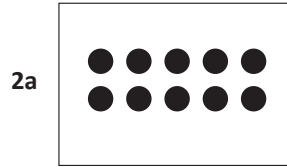
Page 26

1a 2 rows of 4 is 8

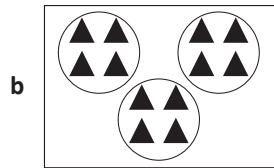
b 4 groups of 2 is 8

1c 3 rows of 5 is 15

d 3 groups of 5 is 15



How many circles? 10



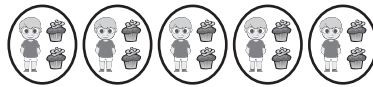
How many triangles? 12

Page 27

1a 3



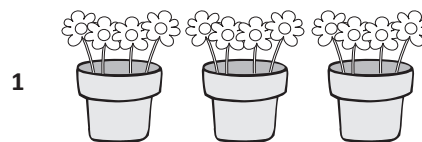
b 2



2 Yes



Page 28



Series B – Operations with Number

Topic	Reference	Strand	Substrand	Objective
Number bonds up to 10	1C1	Number	Addition and Subtraction	Represent and use number bonds and related subtraction facts within 20
Addition and Subtraction	1C1	Number	Addition and Subtraction	Represent and use number bonds and related subtraction facts within 20
Addition and Subtraction	1C2a	Number	Addition and Subtraction	Add and subtract one-digit and two-digit numbers to 20, including zero
Addition and Subtraction	1C2b	Number	Addition and Subtraction	Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs
Addition and Subtraction	1C4	Number	Addition and Subtraction	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$
Multiplication and Division	1C8	Number	Multiplication and Division	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher