

1. Numbers, Operations and Relationships

Practice makes perfect

1. Calculate.

$2 + 2 = 4$	$8 - 3 = 5$	$4 + 4 = 8$
$3 + 5 = 8$	$5 - 0 = 5$	$11 - 9 = 2$
$2 + 6 = 8$	$7 - 1 = 6$	$5 + 6 = 11$
$3 + 4 = 7$	$4 - 4 = 0$	$14 - 4 = 10$
$8 + 5 = 13$	$6 - 2 = 4$	$6 + 7 = 13$

2. Fill in the numbers.

1 ; 2 ; 3; 4 ; 5; 6; 7; 8; 9; 10; 11

11; 12 ; 13; 14; 15; 16; 17; 18; 19; 20

21; 22; 23; 24; 25; 26; 27; 28; 29; 30

1.1 Counting objects

1. a) Count in twos: 2; 4; 6; 8; 10; 12; 14; 16

$$2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = \underline{22}$$

b) Count in fives: 5; 10; 15; 20; 25; 30; 35; 40

$$5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 = \underline{55}$$

c) Count in tens: 10; 20; 30; 40; 50; 60; 70; 80

$$10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 = \underline{90}$$

2. Estimate, group and count.

Estimation:	Count: 56	Were you almost correct?

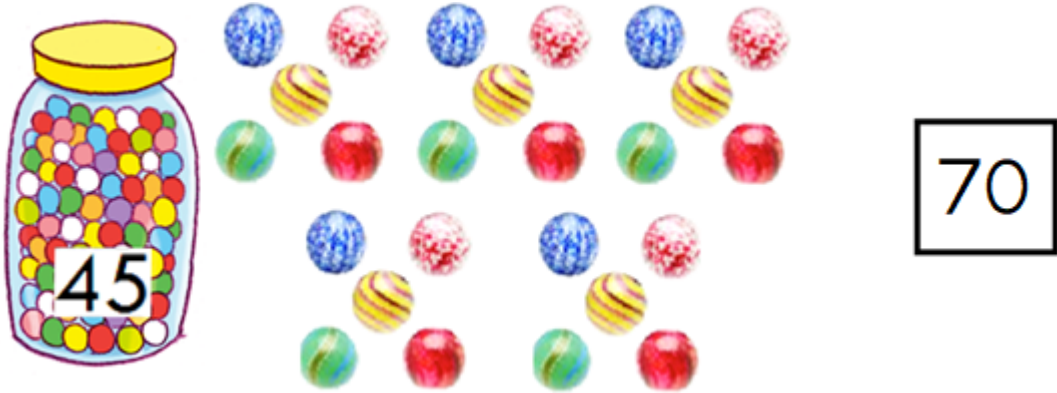
Estimation:	Count: 28	Were you almost correct?

3. a) Count the matches in the box and the loose matches.

b) Count the buttons in the bag and the loose buttons.

2; 4; 6; 8; 10; 12; 14; 16; 18; 20; 22; 24

c) Count the marbles in the container and the loose marbles.

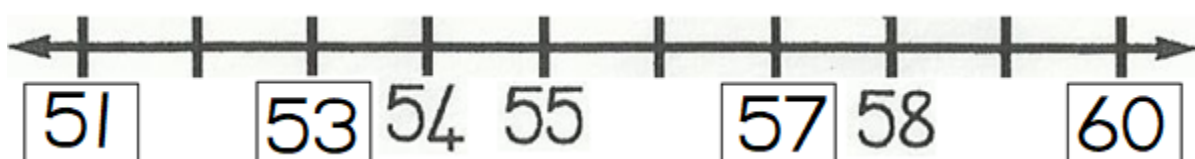


1.2 Counting forwards and backwards

1. Fill in the open blocks in the number chart.

1	2	×	×	5	×	7	×	×	10
×	12	×	14	×	16	×	18	×	20
21	×	23	×	×	26	×	28	29	×
×	×	33	34	35	×	37	×	39	×
41	×	×	×	45	×	47	48	×	50
×	52	53	54	×	56	57	×	59	×
61	×	63	×	65	×	67	×	69	×
71	72	×	×	×	76	×	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

2. Fill in the blocks.



3. Complete.

68; 69; 70; 71; 72; 73; 74; 75; 76

35; 34; 33; 32; 31; 30; 29; 28; 27

20; 25; 30; 35; 40; 45; 50; 55; 60

8; 10; 12; 14; 16; 18; 20; 22; 24

90; 80; 70; 60; 50; 40; 30; 20; 10

4. Count in threes. Circle the numbers.

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				

1.3 Number symbols and number names

Complete.

7	seven
21	twenty one
11	eleven
13	thirteen
23	twenty three
15	fifteen

5	five
19	nineteen
25	twenty five
12	Twelve
17	Seventeen
14	fourteen

3; 6; 9; 12; 15; 18; 21; 24; 27; 30; 33; 36

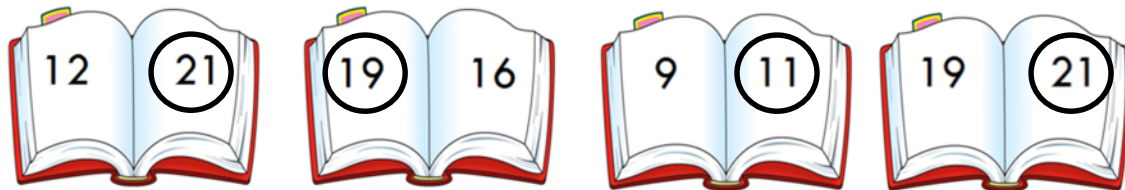
Complete.

20	twenty
30	thirty
40	forty
70	seventy

50	fifty
60	sixty
80	eighty
90	ninety

1.4 Compare and order numbers

1. Circle the largest number in each book.



2. Complete.

7 is 1 less than 8

13 is 2 less than 15

16 is 4 less than 20

6 is 4 less than 10

9 is 2 less than 11

23 is 2 less than 25

12 is 2 more than 10

16 is 3 more than 13

18 is 4 more than 14

17 is 2 more than 15

20 is 1 more than 19

24 is 5 more than 19

3. a) Write down the numbers from smallest to biggest.

21 25 12 15 20

12 15 20 21 25

b) Write down the numbers from biggest to smallest.

13 19 9 11 23

23 19 13 11 9

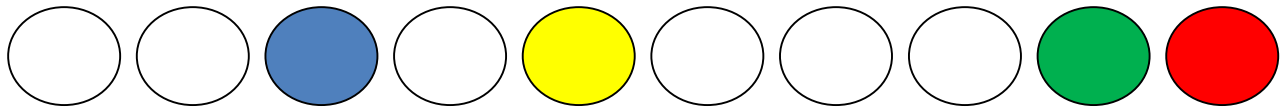
4. Write 'smaller than' OR 'bigger than' between the numbers.

5	is smaller than	9
21	is bigger than	12
20	is bigger than	19

9	is smaller than	11
23	is bigger than	17
18	is bigger than	9

5. Colour the circles as follows:

- the last circle red
- the fifth circle yellow
- the third circle blue
- the ninth circle green



6. Complete.

	between	
9	10	11
18	19	20
23	24	25

before		after
9	10	11
11	12	13
19	20	21

7. Complete.

5 is 1 less than 6

12 is 1 less than 13

18 is 2 less than 20

9 is 2 less than 11

19 is 3 less than 22

10 is 10 less than 20

10 is 1 more than 9

20 is 1 more than 19

13 is 2 more than 11

17 is 2 more than 15

25 is 3 more than 22



19 is 10 more than 9

5; 10; 15; 20; 25; 30; 35; 40; 45; 50; 55; 60

1.5 Problem solving: Comparison



Draw to compare.

There are 14 girls. There are two more boys than girls.

	o	o	o	o	o	o	o	o	o	o	o	o	o				
	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o		



How many boys are there? 16 boys

1. Kim has 18 stars. Ben has 8 stars less than Kim.

	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
										-	-	-	-	-	-	-	-



How many stars does Ben have? 10 stars

2. There are 12 pencils. There are 9 more pencils than children.

																	
				-	-	-	-	-	-	-	-						



How many children are there? 3 children

3. There are 9 apples. There are 7 more apples than bananas.

	o	o	o	o	o	o	o	o	o								
			-	-	-	-	-	-	-								



How many bananas are there? 2 bananas

4. Kim has 17 pens. Ben has 9 less pens than Kim.

																	
										-	-	-	-	-	-	-	-

How many pens does Ben have? 8 pens



5. There are 18 girls. There are 15 boys.

	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
	o	o	o	o	o	o	o	o	o	o	o	o	o	o			

How many more girls than boys are there?

3 more girls than boys



6. Kim has 11 stars. Ben has 17 stars.

	x	x	x	x	x	x	x	x	x	x						
	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

How many stars does Kim have less than Ben?

Kim has 6 stars less than Ben



7. There are 17 pencils. There are 12 children.

																
	o	o	o	o	o	o	o	o	o	o	o					

How many more pencils than children are there?

5 more pencils than children



8. There are 13 apples. There are 9 bananas.

	o	o	o	o	o	o	o	o	o	o	o	o					
																	

How many more apples than bananas are there?

4 more apples than bananas



9. There are 8 dogs. There are 16 cats.

	o	o	o	o	o	o	o	o									
	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	

How many more cats than dogs are there?



8 more cats than dogs

10. There are 6 more girls than boys. There are 8 boys.

	o	o	o	o	o	o	o	o	o	o	o	o	o				
	o	o	o	o	o	o	o										



How many girls are there? 14 girls

11. Kim has 10 more stars than Ben. Ben has 8 stars.

	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
	x	x	x	x	x	x	x										



How many stars does Kim have? 18 stars

12. There are 4 less pencils than children. There are 17 children.

														-	-	-	-
	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o



How many pencils are there? 13 pencils

13. There are 5 less apples than bananas. There are 16 bananas.

	o	o	o	o	o	o	o	o	o	o	o	-	-	-	-	-
																

How many apples are there? 11 apples

14. There are 6 more dogs than cats. There are 10 cats.

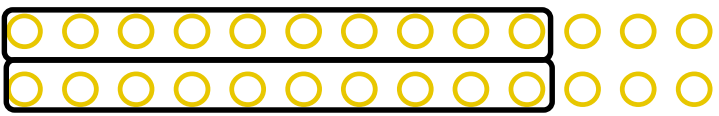
	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	
	o	o	o	o	o	o	o	o	o							

How many dogs are there? 16 dogs

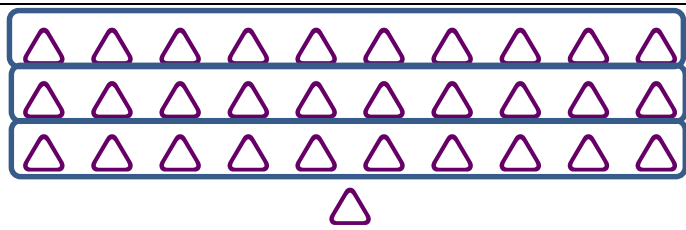
3; 6; 9; 12; 15; 18; 21; 24; 27; 30; 33; 36

1.6 Place value

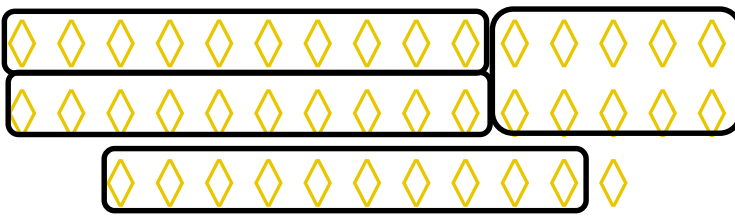
1. Make groups of ten and count.



2 groups of ten
6 units
Total: 26


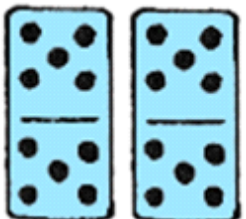
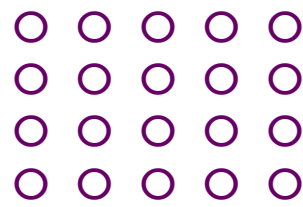


3 groups of ten
1 units
Total: 31



4 groups of ten
1 units
Total: 41

2. Count and write how many blocks or dots.


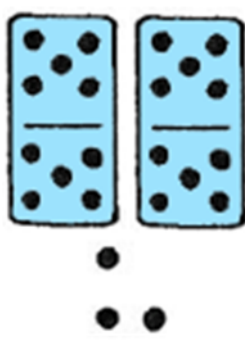




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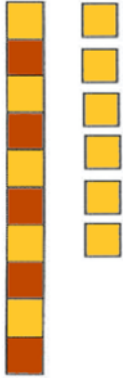
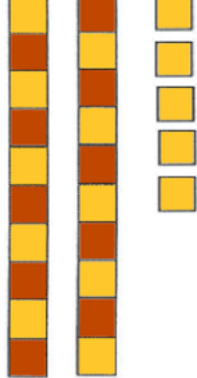
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20

3. a) How many dots are there?

	<p>Tens: <u>1</u></p> <p>Units: <u>9</u></p> <p>Total: <u>19</u></p>
	<p>Tens: <u>2</u></p> <p>Units: <u>3</u></p> <p>Total: <u>23</u></p>

b) How many blocks?

	<p>Tens: <u>1</u></p> <p>Units: <u>6</u></p> <p>Total: <u>16</u></p>
	<p>Tens: <u>1</u></p> <p>Units: <u>6</u></p> <p>Total: <u>16</u></p>

4. Build up. Use number builders if necessary.

$1 \text{ ten and } 5 \text{ units} = \underline{15}$

$1 \text{ ten and } 2 \text{ units} = \underline{12}$

$1 \text{ ten and } 7 \text{ units} = \underline{17}$

$1 \text{ ten and } 4 \text{ units} = \underline{14}$

$2 \text{ tens and } 1 \text{ unit} = \underline{21}$

$2 \text{ tens and } 3 \text{ units} = \underline{23}$

5. Break down the numbers.

$15 = \underline{1} \text{ ten and } \underline{5} \text{ units}$

$19 = \underline{1} \text{ ten and } \underline{9} \text{ units}$

$13 = \underline{1} \text{ ten and } \underline{3} \text{ units}$

$11 = \underline{1} \text{ ten and } \underline{1} \text{ units}$

$18 = \underline{1} \text{ ten and } \underline{8} \text{ units}$

$24 = \underline{2} \text{ tens and } \underline{4} \text{ units}$

6. Break down the numbers.

$16 = \underline{10} + \underline{6}$

$17 = \underline{10} + \underline{7}$

$14 = \underline{10} + \underline{4}$

$15 = \underline{10} + \underline{5}$

$12 = \underline{10} + \underline{2}$

$25 = \underline{20} + \underline{5}$

7. Circle the number that shows the value of the underlined digit.

<u>1</u> 8	<u>10</u>	8	<u>1</u> 4	10	<u>4</u>	<u>2</u> 1	<u>20</u>	1
<u>1</u> 5	<u>10</u>	5	<u>2</u> 8	20	<u>8</u>	<u>1</u> 9	10	<u>9</u>

1.7 Mental Calculations

1. Calculate.

$10 + 6 = 16$	$10 + 2 = 12$	$10 + 3 = 13$
$10 + 1 = 11$	$10 + 9 = 19$	$10 + 5 = 15$
$10 + 4 = 14$	$10 + 7 = 17$	$10 + 8 = 18$
$20 + 5 = 25$	$20 + 3 = 23$	$20 + 4 = 24$

2. Calculate.

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

3. Complete the number combinations.

5	
4	1
3	2
0	5
2	3

6	
2	4
6	0
3	3
1	5

7	
3	4
2	5
0	7
6	1

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

9	
5	4
3	6
8	1
0	9
2	7
6	3

10	
10	0
2	8
6	4
3	7
9	1
5	5

2; 4; 6; 8; 10; 12; 14; 16; 18; 20; 22; 24

4. Add.

$1 + 1 = 2$	$4 + 4 = 8$	$7 + 7 = 14$
$2 + 2 = 4$	$5 + 5 = 10$	$8 + 8 = 16$
$3 + 3 = 6$	$6 + 6 = 12$	$9 + 9 = 18$

5. Complete

If $\square + 8 = 15$ then $15 - 8 = \square$
If $\square + 18 = 25$ then $25 - 18 = \square$
If $17 + \square = 24$ then $24 - 17 = \square$
If $8 + \square = 27$ then $27 - 8 = \square$

6. Calculate.

\square	+	4	=	9
\square	+	5	=	10
\square	+	3	=	11
\square	+	6	=	12
3	+	\square	=	8
7	+	\square	=	9
3	+	\square	=	10
6	+	\square	=	11

7. Complete the number patterns.

+ 2	16	18	20	22	24	26	28	30
+ 5	30	35	40	45	50	55	60	65
+ 3	3	6	9	12	15	18	21	24
+10	30	40	50	60	70	80	90	100

8. Add.

$1 + 2 = 3$	$2 + 2 = 4$	$3 + 1 = 4$
$10 + 20 = 30$	$20 + 20 = 40$	$30 + 10 = 40$
$2 + 3 = 5$	$2 + 1 = 3$	$1 + 4 = 5$
$20 + 30 = 50$	$20 + 10 = 30$	$10 + 40 = 50$

9. Complete.

If $\square - 8 = 5$
then $8 + 5 = \square$
If $\square - 11 = 14$
then $11 + 14 = \square$
If $17 - \square = 9$
then $17 - 9 = \square$
If $18 - \square = 12$
then $18 - 12 = \square$

10. Calculate.

$\boxed{6}$	-	4	=	2
$\boxed{8}$	-	5	=	3
$\boxed{9}$	-	3	=	6
$\boxed{14}$	-	6	=	8
8	-	$\boxed{6}$	=	2
9	-	$\boxed{5}$	=	4
11	-	$\boxed{8}$	=	3
13	-	$\boxed{5}$	=	8

11. Calculate.

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

12. Subtract.

$2 - 1 = 1$	$2 - 2 = 0$	$4 - 1 = 3$
$20 - 10 = 10$	$20 - 20 = 0$	$40 - 10 = 30$
$3 - 2 = 1$	$3 - 1 = 2$	$5 - 1 = 4$
$30 - 20 = 10$	$30 - 10 = 20$	$50 - 10 = 40$

13. Complete the number patterns.

-2	24	22	20	18	16	14	12	10
-5	50	45	40	35	30	35	30	25
-10	100	90	80	70	60	50	40	30

1.8 Add and subtract by counting

1. Count on.

• 6; 7; 8; 9

• 17; 18; 19; 20

• 10; 11; 12; 13

• 8; 9; 10; 11

2. Draw circles to show the sum. Count on to calculate.

$$13 + 3 = \boxed{16}$$

13 + ○○○ = 16

$$14 + 4 = \boxed{18}$$

14 + ○○○○ = 18

$$17 + 2 = \boxed{19}$$

17 + ○○ = 19

$$9 + 5 = \boxed{14}$$

9 + ○○○○○ = 14

$$8 + 4 = \boxed{12}$$

8 + ○○○○ = 12

$$18 + 2 = \boxed{20}$$

18 + ○○ = 20

3. Count on to calculate. Show your counting.

$$8 + 4 = \boxed{12}$$

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

9; 10; 11; 12

10; 11; 12

$$16 + 2 = \boxed{18}$$

$$11 + 4 = \boxed{15}$$

17; 18

12; 13; 14; 15

4. Count on to calculate.

$$13 + 2 = \boxed{15}$$

$$8 + 3 = \boxed{11}$$

$$16 + 4 = \boxed{20}$$

$$15 + 3 = \boxed{18}$$

$$10 + 4 = \boxed{14}$$

$$8 + 5 = \boxed{13}$$

$$12 + 5 = \boxed{17}$$

$$9 + 2 = \boxed{11}$$

$$13 + 3 = \boxed{16}$$