Year 2 Maths Number and Place Value Workbook

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Year 2 Maths Number and Place Value Workbook

Year 2 Programme of Study – Number and Place Value

Statutory Requirements	Worksheet	Page Number	Notes
Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward	Counting in 2s, 3s, 5s and 10s Worksheet	3	
Recognise the place value of each digit in a two-digit number (tens, ones)	Place Value Worksheet 1, 2 and 3	4 - 6	
Identify, represent and estimate numbers using different representations, including the number line	Representing Numbers Worksheet 1, 2, 3 and 4	7 - 10	
Compare and order numbers from 0 up to 100; use <, > and = signs	Greater Than and Less Than Worksheets	11	
Read and write numbers to at least 100 in numerals and in words	Reading and Writing Numbers to 100	12	
Use place value and number facts to solve problems	Place Value Challenge	13	

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Counting on in 2s, 3s, 5s and 10s

Complete the following sequences:

a) _2_ 4 6 8 10 _12_

b) 50 45 _40_ 35 _30_ 25

c) _3_ 6 9 12 _15_ 18

d) 90 _80_ _70_ 60 50 40

e) 16 _26_ 36 46 _56_ 66

f) _27_ 24 21 _18_ 15 12

g) 35 40 _45_ 50 _55_ 60

h) 111 _101_ _91_ 81 71 61

i) _36_ _34_ 32 30 28 26

j) 10 20 _30_ _40_ 50 60

Continue the following sequences:

k) 5 10 15 _20_ _25_ _30_ _35_ _40_ _45_ _50_ _55_ _60_ _65_ _70_

l) 3 6 9 _12_ _15_ _18_ _21_ _24_ _27_ _30_ _33_ _36_ _39_ _42_

m) 85 80 75 _70_ _65_ _60_ _55_ _50_ _45_ _40_ _35_ _30_ _25_ _20_

n) 14 24 34 _44_ _54_ _64_ _74_ _26_ _26_ _26_ _26_ _26_ _26_ _26_

o) 2 4 6 _8_ _10_ _12_ _14_ _16_ _18_ _20_ _22_ _24_ _26_ _28_

p) 50 55 60 _65_ _70_ _75_ _80_ _85_ _90_ _95_ _100_ _105_ _110_ _115_
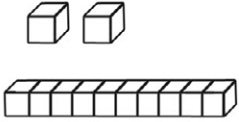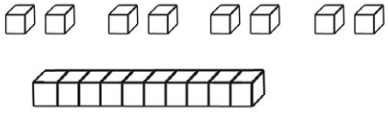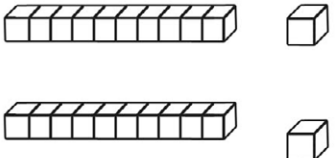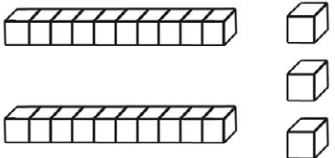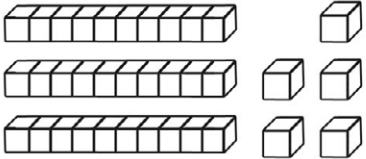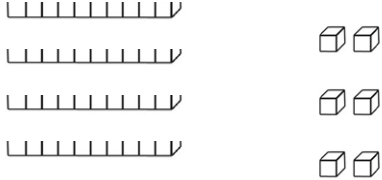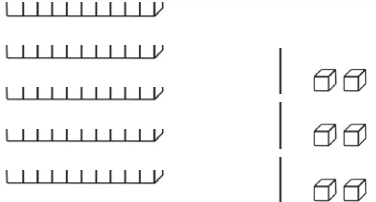
q) 45 42 39 _36_ _33_ _30_ _27_ _24_ _21_ _18_ _15_ _12_ _9_ _6_

r) 70 68 66 _64_ _62_ _60_ _58_ _56_ _54_ _52_ _50_ _48_ _46_ _44_

s) 147 137 127 _117_ _107_ _97_ _87_ _77_
_77_ _67_ _57_ _47_ _37_ _27_

Challenge: Choose a starting number and count in 2 s, 5 s or 10 s from that number. Can you think of a way in which counting in 5 s is different from counting in 2 s or 10 s?
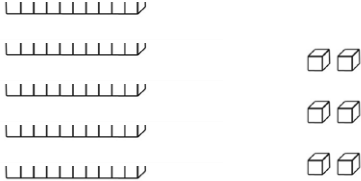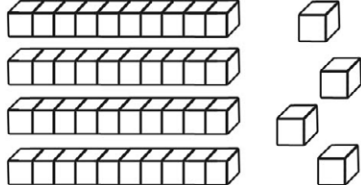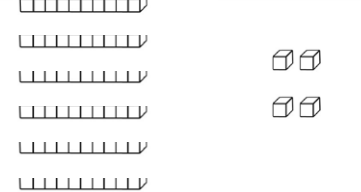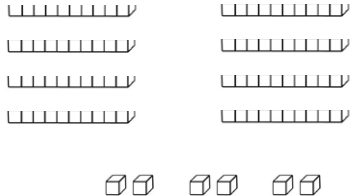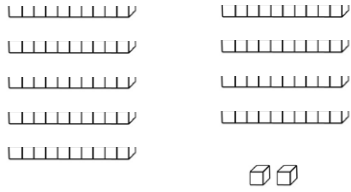
Place Value Worksheet 1

Number	Words	Expanded Form	Picture
12	__1_ tens __2_ ones	_10_ + _2_ = _12_	
18	__1_ tens 8 ones	10 + _8_ = _18_	
22	__2_ tens __2_ ones	_20_ + _2_ = 22	
23	__2_ tens __3_ ones	_20_ + _3_ = _23_	
35	__3_ tens __5_ ones	_30_ + _5_ = 35	
46	__4_ tens 6 ones	40 + _6_ = _46_	
56	__5_ tens __6_ or	50 6 56	

Place Value Worksheet 2

Number	Words	Expanded Form	Picture
52	__5__ tens __2__ ones	50 + 2 = __52__	
39	3 tens 9 ones	__30__ + __9__ = __39__	
27	__2__ tens __7__ ones	20 + 7= __27__	
44	__4__ tens __4__ ones	__40__ + __4__ = __44__	
75	__7__ tens __5__ ones	__70__ + __5__ = __42__	
15	__1__ tens __5__ ones	__10__ + __5__ = __15__	
78	__7__ tens __8__ ones	70 + 8= __78__	

Place Value Worksheet 3

Number	Words	Expanded Form	Picture
33	_3_ tens _3_ ones	_30_ + _3_ = _33_	
56	_5_ tens _6_ ones	_50_ + _6_ = _56_	
44	_4_ tens _4_ ones	_4_ + _4_ = _44_	
57	_5_ tens 7 ones	50 + _7_ = _57_	
64	_6_ tens _4_ ones	_60_ + _4_ = _64_	
86	_8_ tens 6 ones	80 + _6_ = _86_	
92	_9_ tens _2_ ones	_90_ + _2_ = _92_	

Representing Numbers Worksheet 1

Draw an arrow to show the following numbers on the 0-100 number lines:

a) 45

0   100

b) 13

0   100

c) 98

0   100

d) 75

0   100

e) 26

0   100

f) 57

0   100

g) 24

0   100

h) 87

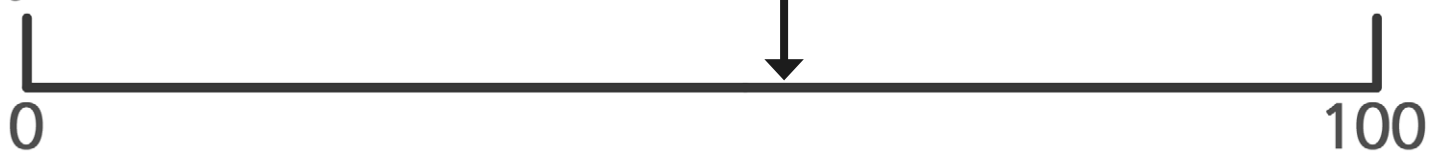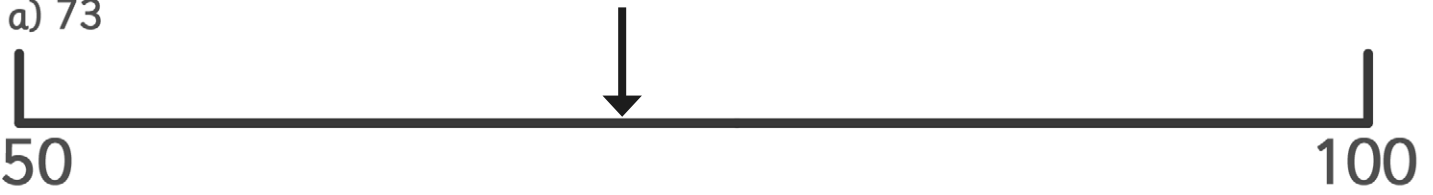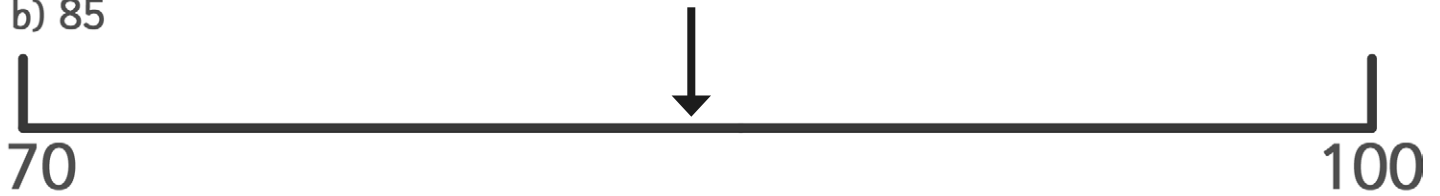0   100

Representing Numbers Worksheet 2

Draw an arrow to show the following numbers on the following number lines:

a) 73

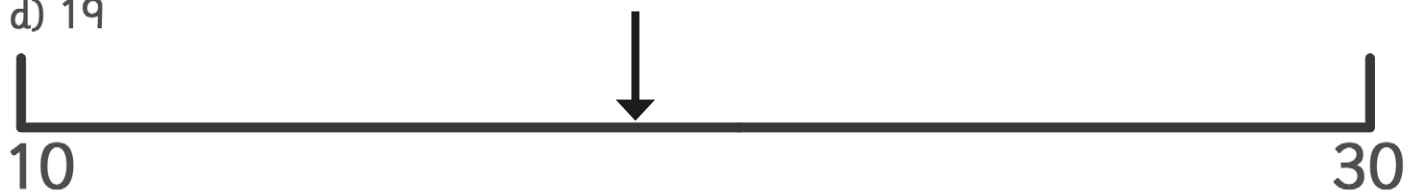50   100

b) 85

70   100

c) 35

30   50

d) 19

10   30

e) 44

20   50

f) 57

50   70

g) 59

45   65
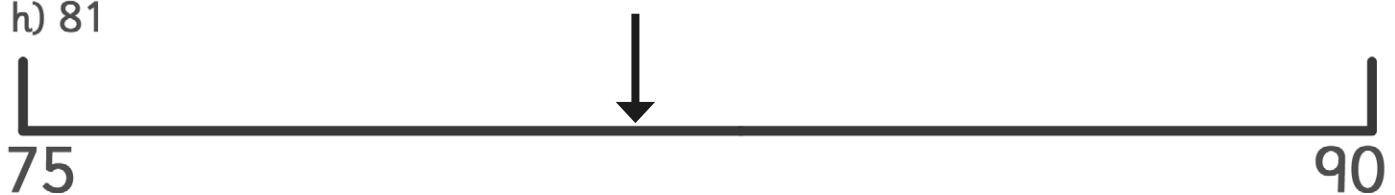
h) 81

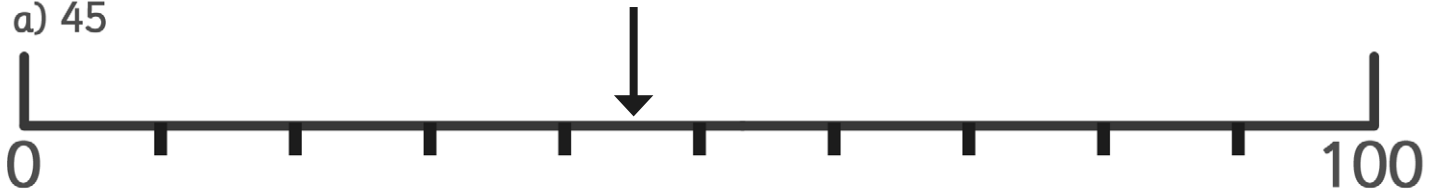75   90

Representing Numbers Worksheet 3

Draw an arrow to show the following numbers on the 0-100 number lines:
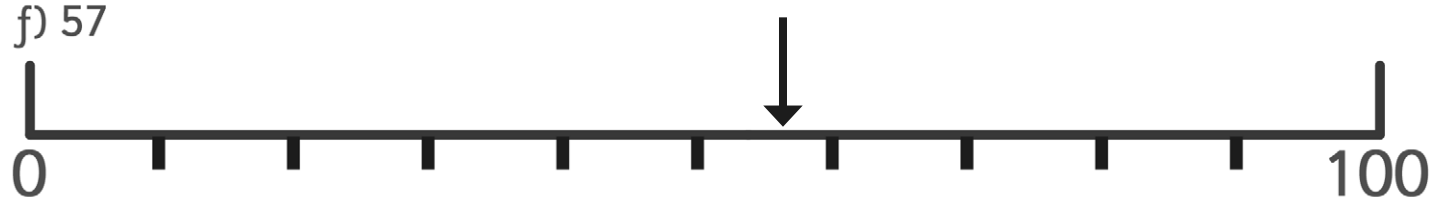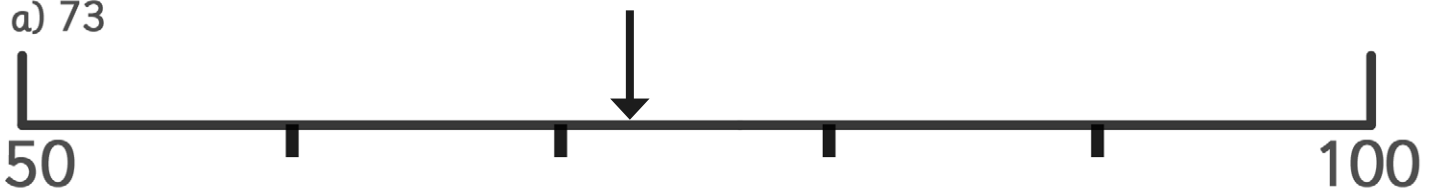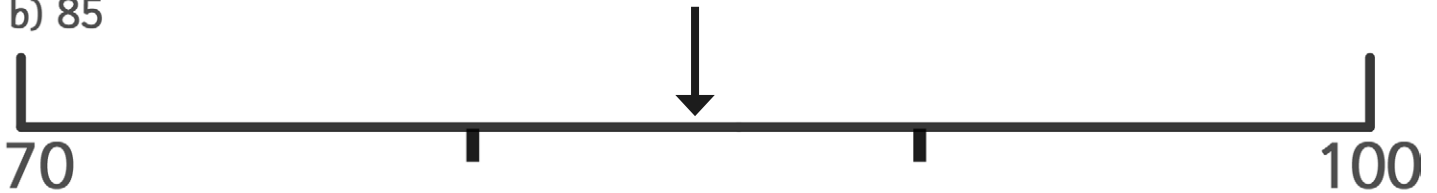
a) 45

0   100

b) 13

0   100

c) 98

0   100

d) 75

0   100

e) 26

0   100

f) 57

0   100

g) 24

0   100

h) 87

0   100

Representing Numbers Worksheet 4

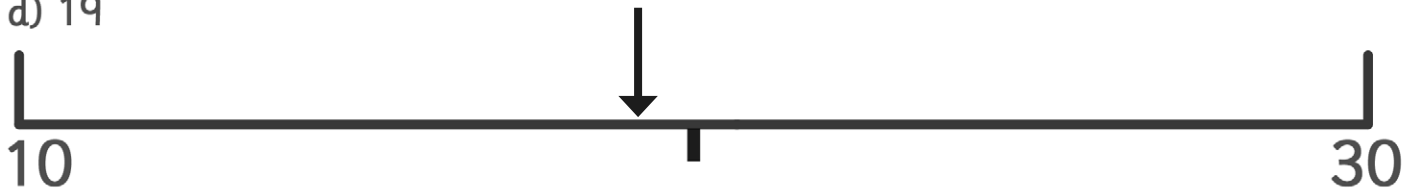Draw an arrow to show the following numbers on the following number lines:

a) 73

50 _____ 100

b) 85

70 _____ 100

c) 35

30 _____ 50

d) 19

10 _____ 30

e) 44

20 _____ 50

f) 57

50 _____ 70

g) 63

45 _____ 65
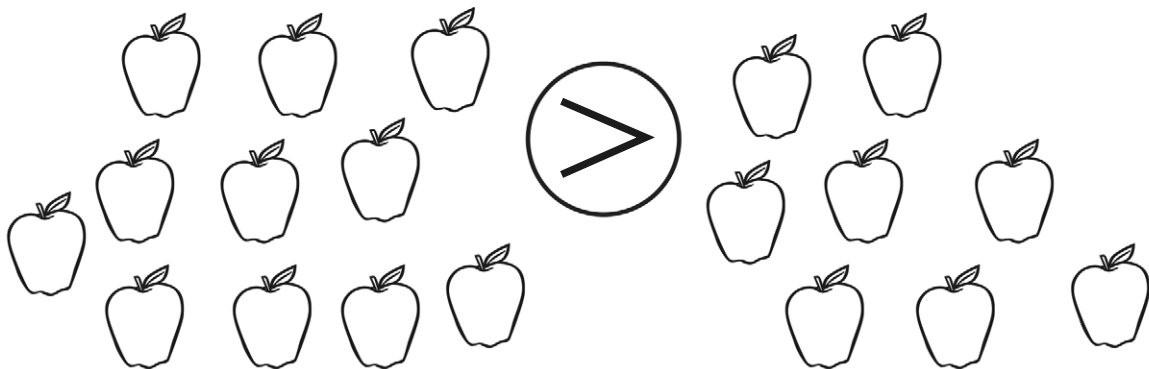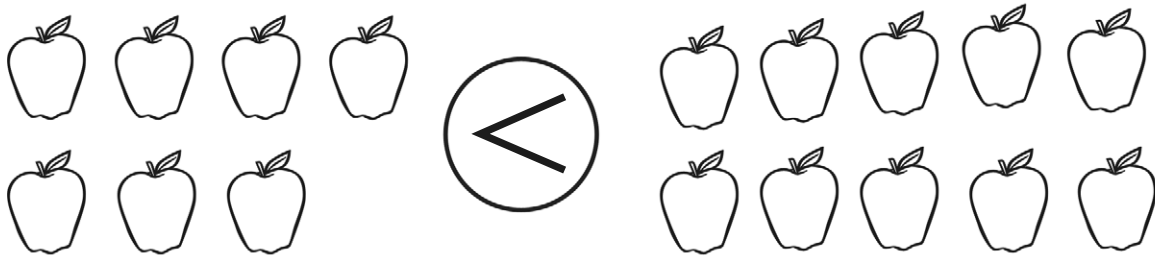
h) 81

75 _____ 90

Greater Than and Less Than

Add < or > to the below number pairs to make them correct.

1) 12 < 15   2) 30 > 22   3) 100 > 91   4) 46 > 41

5) 22 > 18   6) 64 > 46   7) 92 > 20   8) 22 > 20

9) 70 > 67   10) 25 < 30   11) 30 > 24   12) 21 > 11
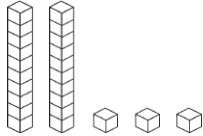
Great! Now try with pictures.
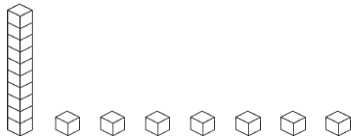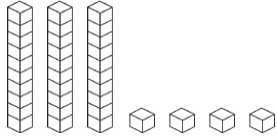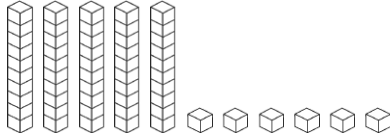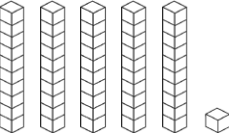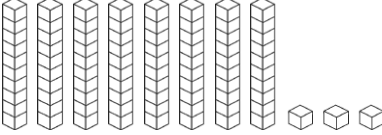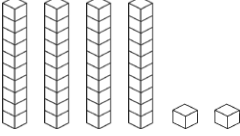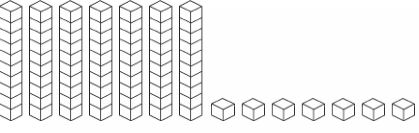
Can you give the below problems a number to make them right?

1) 22 < _30_   2) 14 > _10_   3) 82 < _90_   4) 97 > _80_

5) 17 < _20_   6) 28 > _1_   7) 99 < _100_   8) 33 > _29_

9) 50 > _20_   10) 66 < _75_   11) 76 > _60_   12) 52 < _65_

13) 60 > _10_   14) 72 < _99_   15) 4 > _1_   16) 81 < _82_
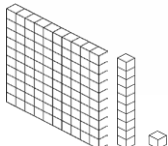
Example answers give.

Reading and Writing Numbers to 100 Worksheet - ANSWERS

Can you fill out any missing boxes for each of the numbers below? The first one has been done for you to show you what to do.

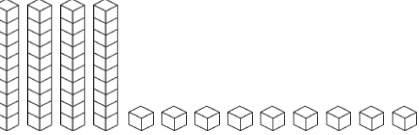| Numerals	Number in Words	Tens	Ones	Illustration
23	twenty three	2	3	
17	seventeen	**1**	**7**	
34	**thirty four**	**3**	**4**	
56	fifty six	5	6	
51	**fifty one**	5	1	
49	**forty nine**	**4**	**9**	
83	eighty three	**8**	**3**	
42	**forty two**	4	2	
77	**seventy seven**	7	7	

Challenge

Numerals	Number in Words	Hundreds	Tens	Ones	Illustration
111	one hundred and eleven	1	1	1	

Place Value Challenge

To take part in this challenge, you will need a ten sided die. If you don't have one use a virtual dice site online.

Each time you roll a number, you must decide where to put it in the grid. The aim of the challenge is to make the value of the numbers increase each time, going on as long as you can. Follow this example through to help you think about the tactics of the game and how you can give yourself more chance to succeed.

Tens	Ones	Action
1	9	First roll = 0 - Placed in ones column in row 2
		Second Roll = 9 - Placed in tens column in sixth row
2	0	Third Roll = 4 - Placed in tens column in third row
		Fourth Roll = 7 - Placed in ones column fourth row
4	6	Fifth Roll = 6 - Placed in tens column fourth row
		Sixth Roll = 2 – Placed in tens column second row
6	7	Seventh Roll = 3 – Placed in ones column sixth row
	3	Eighth Roll = 6 – Placed in ones column third row
		Ninth Roll = 3 – Placed in ones column fifth row
9	3	Tenth Roll = 6 – Placed in ones column seventh row
		Eleventh Roll = 6 **FAIL – CAN'T MAKE A BIGGER NUMBER**
	6	Three bigger numbers made – points scored = 3

Got it? You're ready to make a start. You could also print off another sheet to play against someone else.

Tens	Ones	Points Scored
0	9	

Tens	Ones	Points Scored
1	3	

Tens	Ones	Points Scored
1	9	