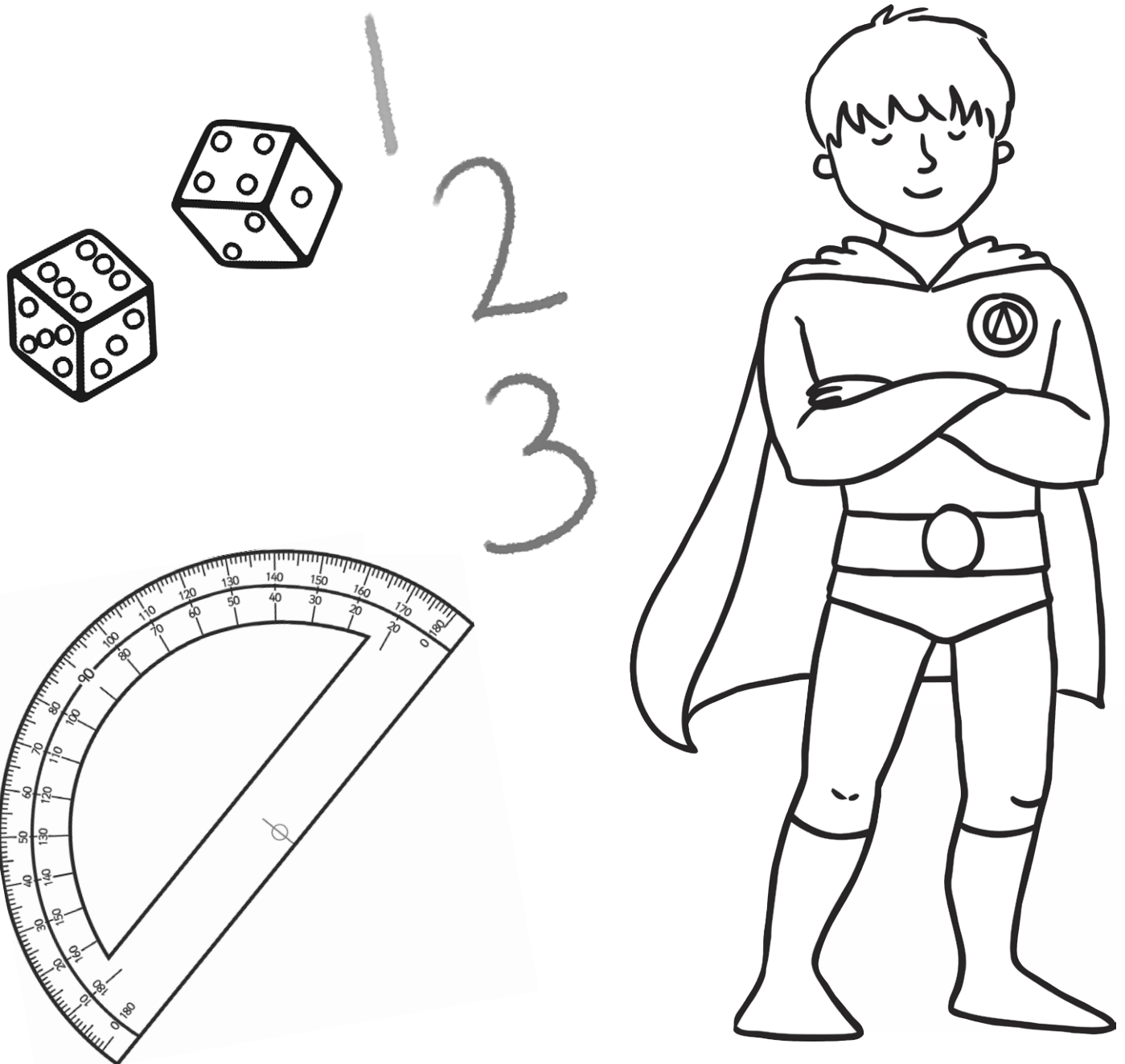


# Year 2 Maths Number and Place Value Workbook



# 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	

## 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

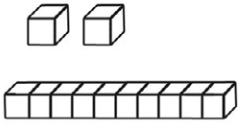
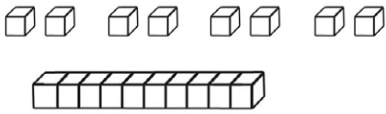
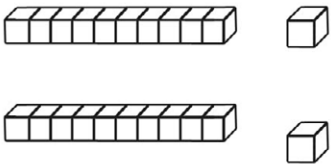
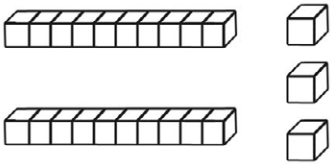
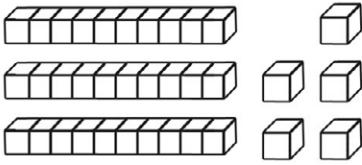
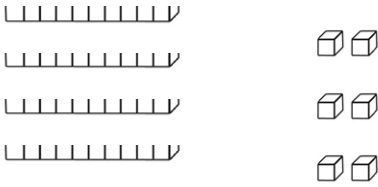
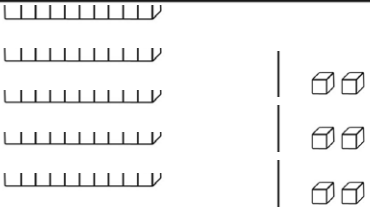
q) 45 42 39 36 33 30 27 24 21 18 15 12 9 6

r) 70 68 66 64 62 60 58 56 54 52 50 48 46 44

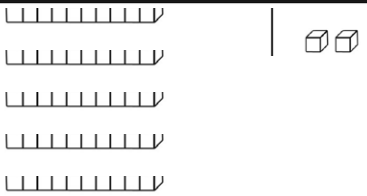
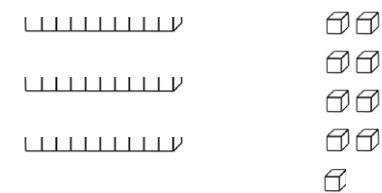
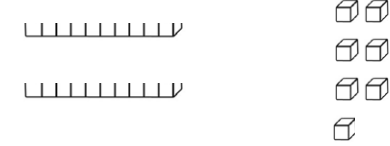
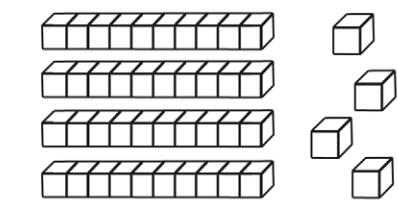
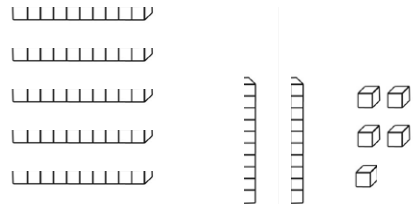

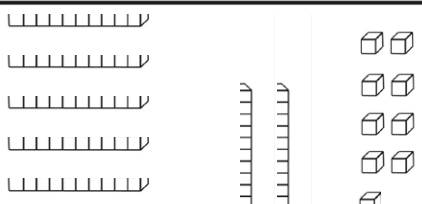
s) 147 137 127 117 107 97 87 77  
77 67 57 47 37 27

**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?



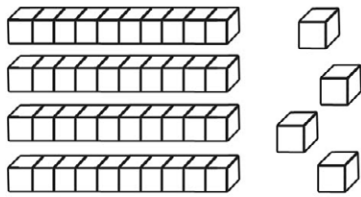

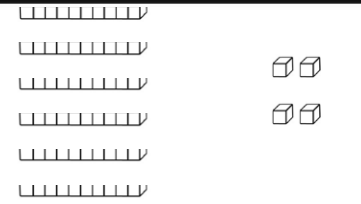
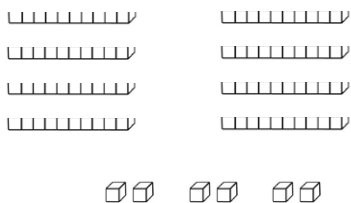
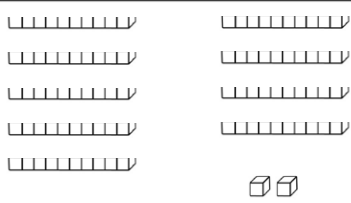
# Place Value Worksheet 1

Number	Words	Expanded Form	Picture
12	<u>1</u> tens <u>2</u> ones	$\underline{10} + \underline{2} = \underline{12}$	
18	<u>1</u> tens 8 ones	$\underline{10} + \underline{8} = \underline{18}$	
22	<u>2</u> tens <u>2</u> ones	$\underline{20} + \underline{2} = \underline{22}$	
23	<u>2</u> tens <u>3</u> ones	$\underline{20} + \underline{3} = \underline{23}$	
35	<u>3</u> tens <u>5</u> ones	$\underline{30} + \underline{5} = \underline{35}$	
46	<u>4</u> tens 6 ones	$\underline{40} + \underline{6} = \underline{46}$	
56	<u>5</u> tens <u>6</u> ones	$\underline{50} + \underline{6} = \underline{56}$	

## Place Value Worksheet 2

Number	Words	Expanded Form	Picture
52	<u>5</u> tens <u>2</u> ones	$50 + 2 = \underline{52}$	
39	3 tens 9 ones	$\underline{30} + \underline{9} = \underline{39}$	
27	<u>2</u> tens <u>7</u> ones	$20 + 7 = \underline{27}$	
44	<u>4</u> tens <u>4</u> ones	$\underline{40} + \underline{4} = \underline{44}$	
75	<u>7</u> tens <u>5</u> ones	$\underline{70} + \underline{5} = \underline{75}$	
15	<u>1</u> tens <u>5</u> ones	$\underline{10} + \underline{5} = \underline{15}$	
78	<u>7</u> tens <u>8</u> ones	$70 + 8 = \underline{78}$	

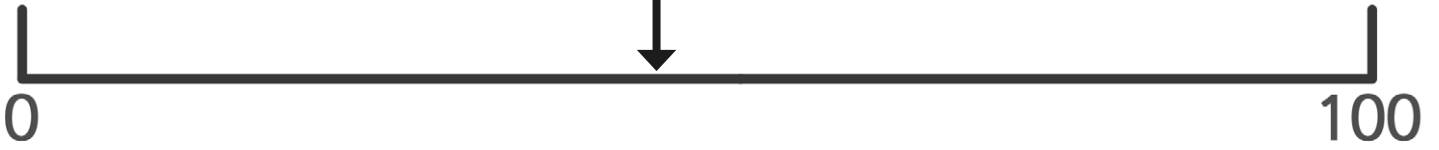
## Place Value Worksheet 3

Number	Words	Expanded Form	Picture
33	<u>3</u> tens <u>3</u> ones	<u>30</u> + <u>3</u> = <u>33</u>	
56	<u>5</u> tens <u>6</u> ones	<u>50</u> + <u>6</u> = <u>56</u>	
44	<u>4</u> tens <u>4</u> ones	<u>4</u> + <u>5</u> = <u>44</u>	
57	<u>5</u> tens <u>7</u> ones	50 + <u>7</u> = <u>57</u>	
64	<u>6</u> tens <u>4</u> ones	<u>60</u> + <u>4</u> = <u>64</u>	
86	<u>8</u> tens <u>6</u> ones	80 + <u>6</u> = <u>86</u>	
92	<u>9</u> tens <u>2</u> ones	<u>90</u> + <u>2</u> = <u>92</u>	

# Representing Numbers Worksheet 1

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

a) 45



b) 13



c) 98



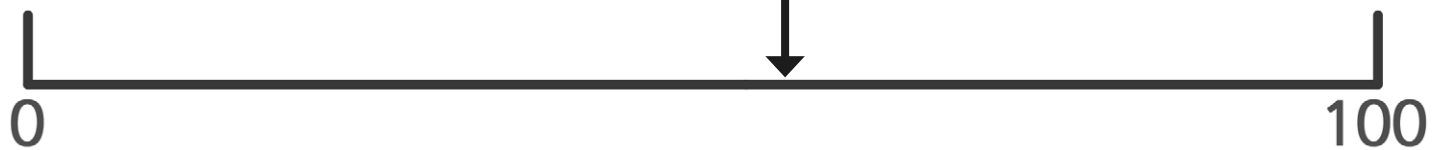
d) 75



e) 26



f) 57



g) 24



h) 87



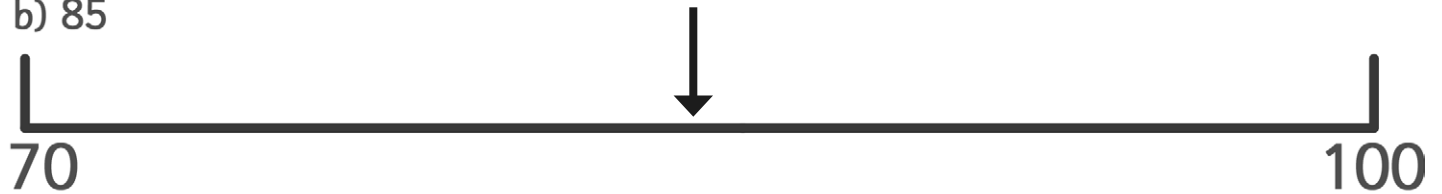
## Representing Numbers Worksheet 2

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

a) 73



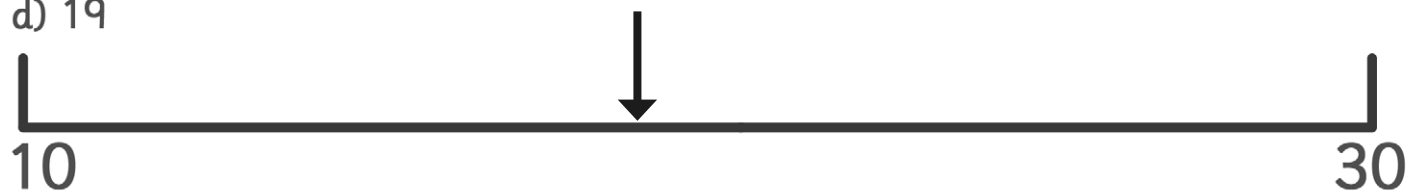
b) 85



c) 35



d) 19



e) 44



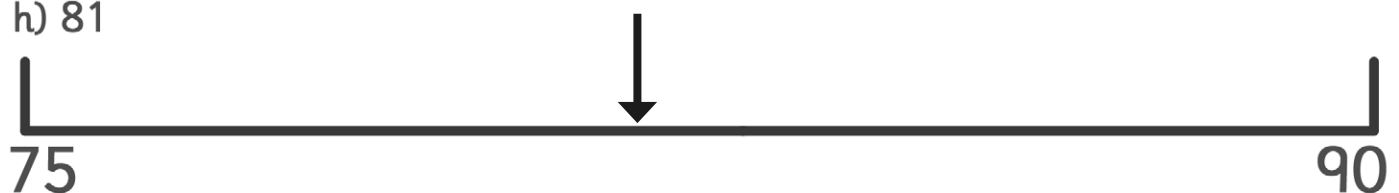
f) 57



g) 59



h) 81

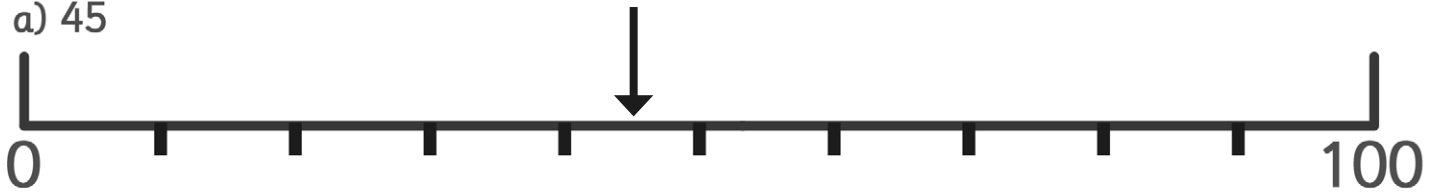




## Representing Numbers Worksheet 3

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

a) 45



b) 13



c) 98



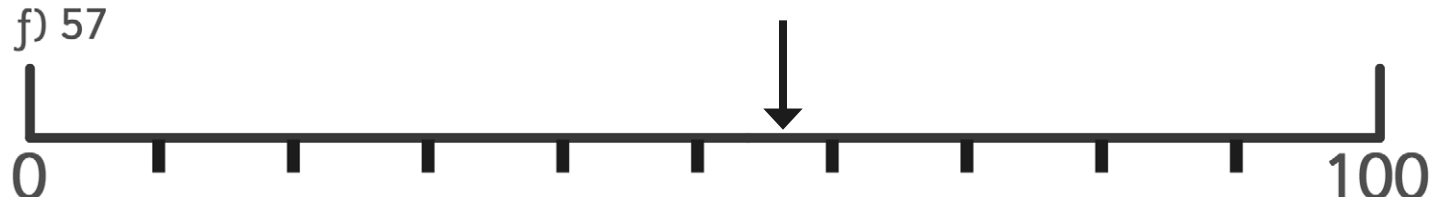
d) 75



e) 26



f) 57



g) 24



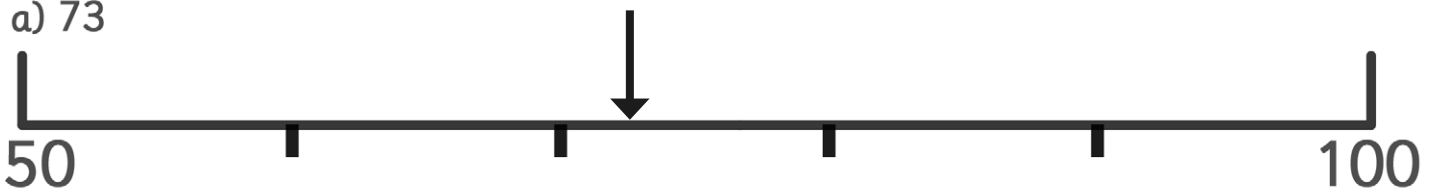
h) 87



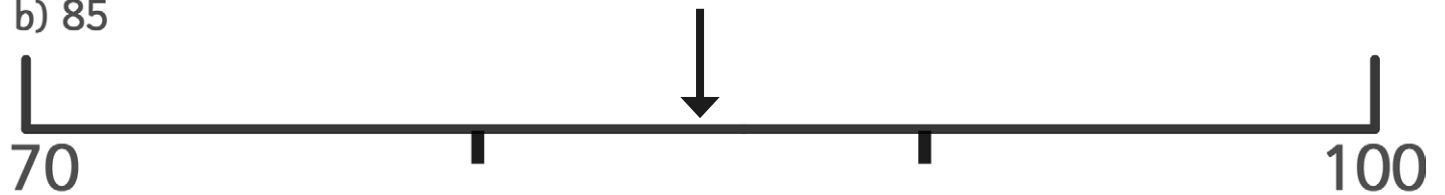
## Representing Numbers Worksheet 4

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

a) 73



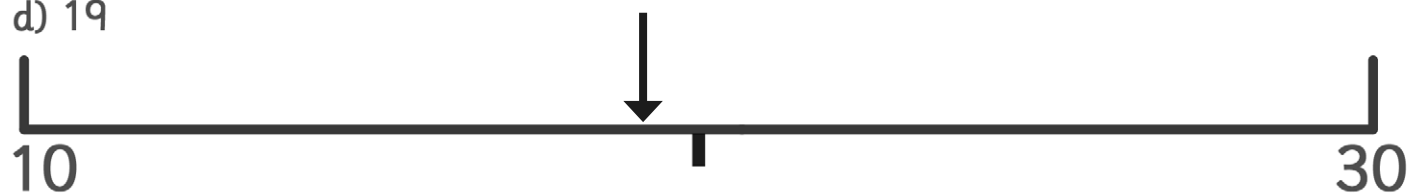
b) 85



c) 35



d) 19



e) 44



f) 57



g) 63



h) 81

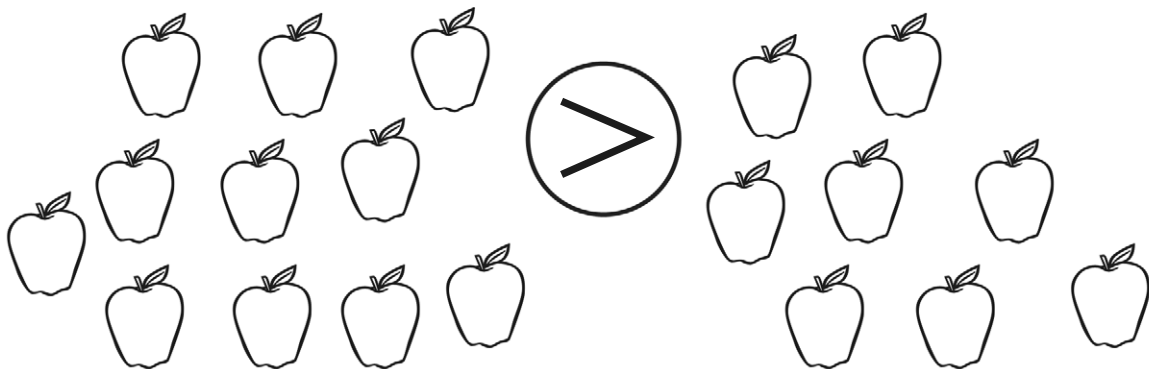
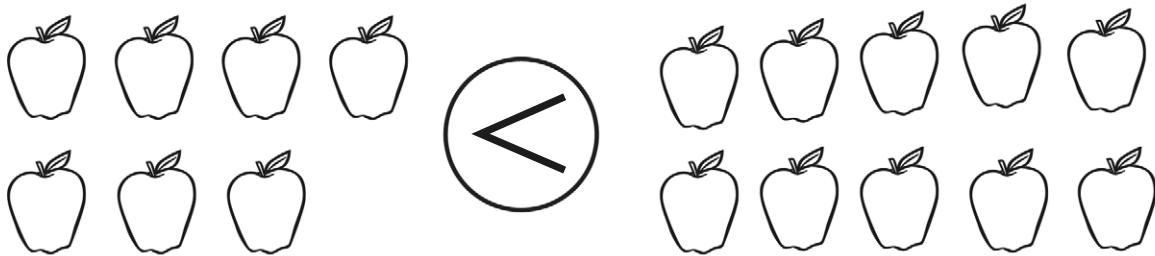


## Greater Than and Less Than

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) $22 < \underline{30}$  | 2) $14 > \underline{10}$  | 3) $82 < \underline{90}$  | 4) $97 > \underline{80}$  |
| 5) $17 < \underline{20}$  | 6) $28 > \underline{1}$   | 7) $99 < \underline{100}$ | 8) $33 > \underline{29}$  |
| 9) $50 > \underline{20}$  | 10) $66 < \underline{75}$ | 11) $76 > \underline{60}$ | 12) $52 < \underline{65}$ |
| 13) $60 > \underline{10}$ | 14) $72 < \underline{99}$ | 15) $4 > \underline{1}$   | 16) $81 < \underline{82}$ |

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 Eighth Roll = 6 - Placed in ones column third row
	3	Ninth Roll = 3 - Placed in ones column fifth row Tenth Roll = 6 - Placed in ones column seventh row
9	3	Eleventh Roll = 6 <b>FAIL – CAN'T MAKE A BIGGER NUMBER</b>
	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	

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