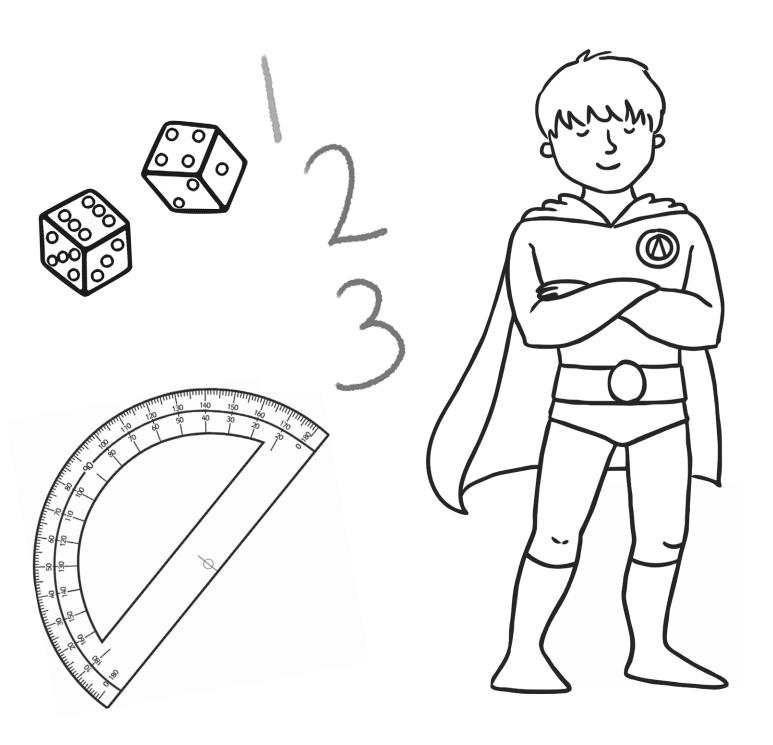
# Year 2 Maths Number and Place Value Workbook



# 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) <u>2</u> 4 6 8 10 <u>12</u>

b) 50 45 <u>40</u> 35 <u>30</u> 25

c) 3 6 9 12 <u>15</u> 18

d) 90 80 70 60 50 40

e) 16 26 36 46 56 66

f) <u>27</u> 24 21 <u>18</u> 15 12

q) 35 40 <u>45</u> 50 <u>55</u> 60

h) 111 101 91 81 71 61

i) <u>36</u> <u>34</u> 32 30 28 26

j) 10 20 <u>30</u> <u>40</u> 50 60

#### Continue the following sequences:

k) 5 10 03 6 9 12 21 24 33 36 39 55 50 m) 85 80 75 74\_ 134 144 n) 14 24 34 <u>14</u> <u>16</u> \_26 o) 2 4 6 <u>8</u> <u>10</u> p) 50 55 60 65 100 105 110 115 36 33 30 27 24 a) 45 42 39 64 62 60 58 56 54 52 46 44 r) 70 68 66 137 127 117 s) 147 

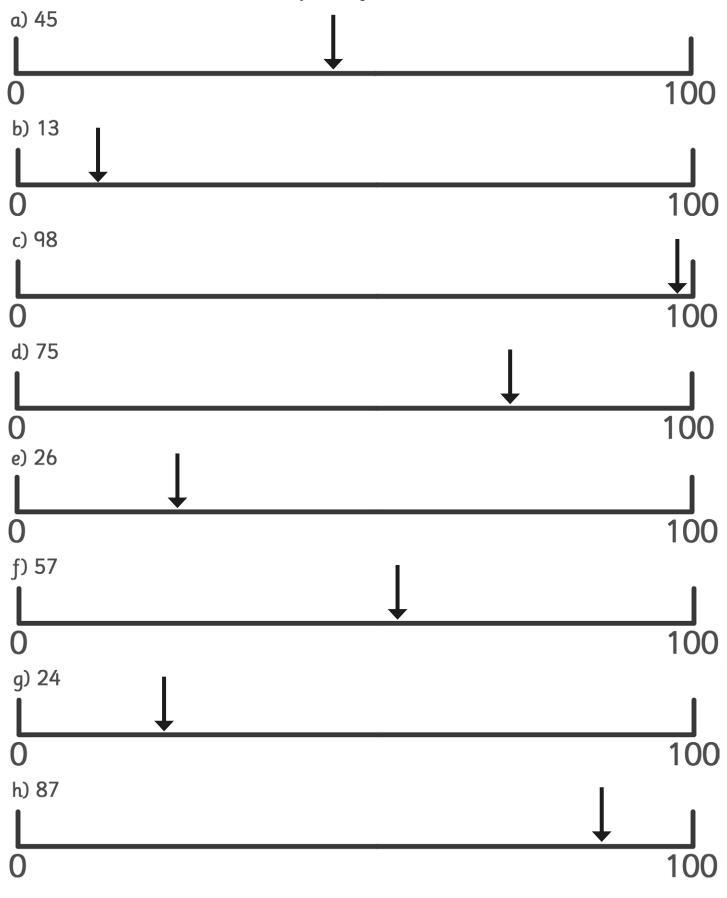
**Challenge:** Choose a starting number and count in 2 s, 5 s or 10 s from that number. Can you think of a way in which counting in 5 s is different from counting in 2 s or 10 s?

Number	Words	Expanded Form	Picture
12	tens ones	<u>10</u> + <u>2</u> = <u>12</u>	<i>a a a a a a a a a a</i>
18	_1_tens 8 ones	<u>10</u> + <u>8</u> = <u>18</u>	00 00 00 00 (111111111)
22	tens ones	<u>20</u> + <u>2</u> = <u>22</u>	
23	_²_tens _³_ones	_20 + 3 = 23	
35	3_tens 5_ones	<u>30</u> + <u>5</u> = <u>35</u>	
46	_4_tens 6 ones	40 + 6 = 46	
56	5_tens 6_ones	_50 + _6 = 56	

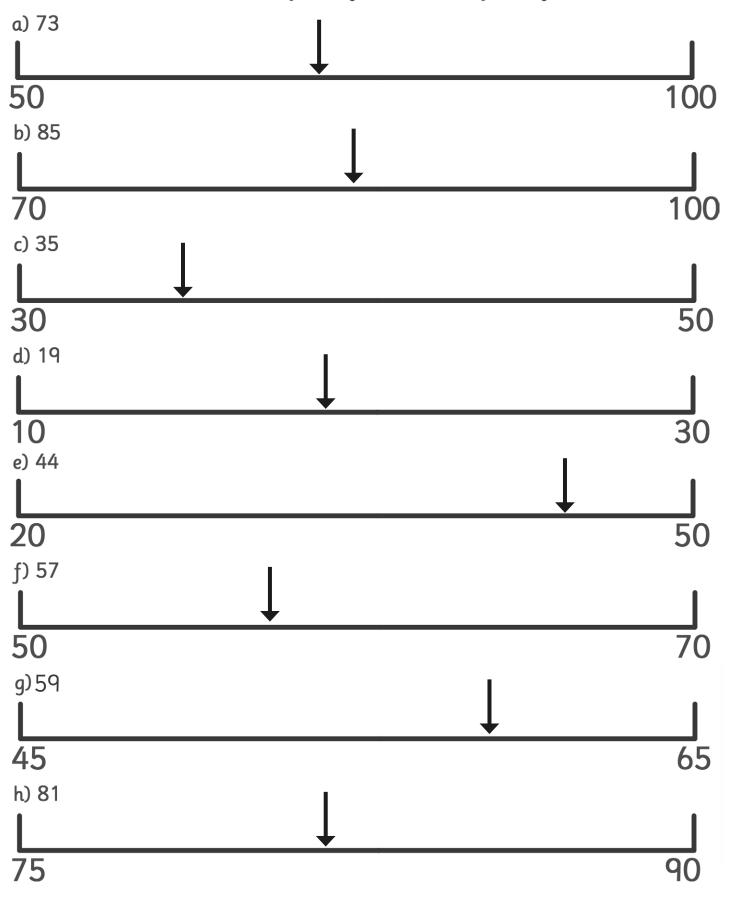
Number	Words	Expanded Form	Picture
52	5 tens 2 ones	50 + 2 = 52	
39	3 tens 9 ones	<u>30</u> + <u>9</u> = <u>39</u>	1111111111 QQ 1111111111 QQ 1111111111 QQ 11111111
27	_2_tens _7_ones	20 + 7= 27	6 111111111 10 1111111111 10 10 11 11 11
44	<u>4</u> tens <u>4</u> ones	<u>40</u> + <u>4</u> = <u>44</u>	
75		<u>70 + 5 = 42</u>	
15	_1_tens _5_ones	<u>10 + 5 = 15</u>	6 111111111111111111111111111111111111
78		70 + 8= <u>78</u>	

Number	Words	Expanded Form	Picture
33	_3_tens _3_ones	30 + 3 = 33	тттттть гтттттть гтттттт
56	_5_tens _6_ones	<u>50</u> + <u>6</u> = <u>56</u>	ппппппл ппппппл ппппппл ппппппл ппппппл пппппп
44	_4_tens _4_ones	<u>4</u> + <u>4</u> = <u>44</u>	
57	_5_tens 7 ones	50 + 7 = 57	
64	_6_tens _4_ones	60_+_4_=_64_	
86	_ <sub>8</sub> _tens 6 ones	80 + 6 = 86	
92	tens 	90 + 2 = 92	

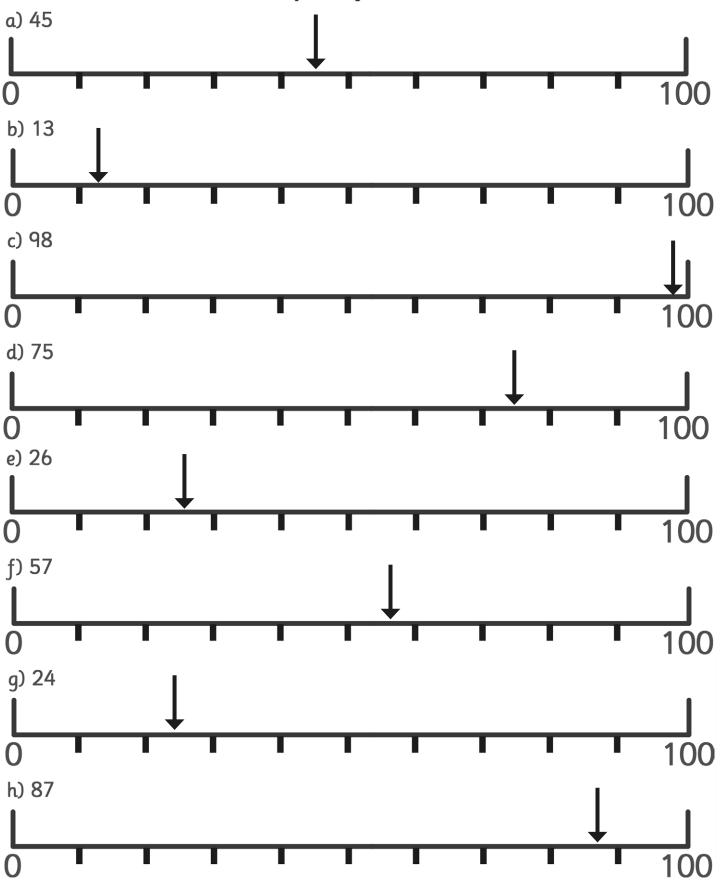
Draw an arrow to show the following numbers on the 0-100 number lines:



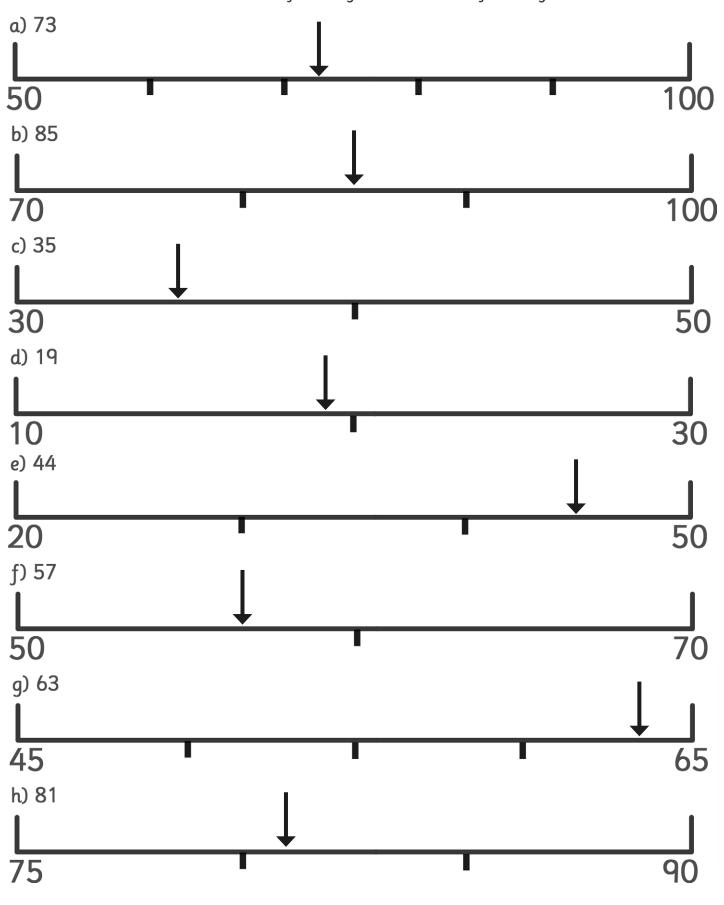
Draw an arrow to show the following numbers on the following number lines:



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



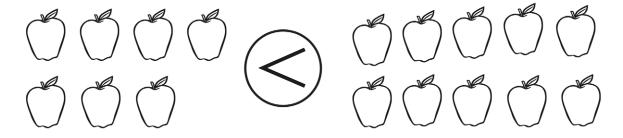
Draw an arrow to show the following numbers on the following number lines:

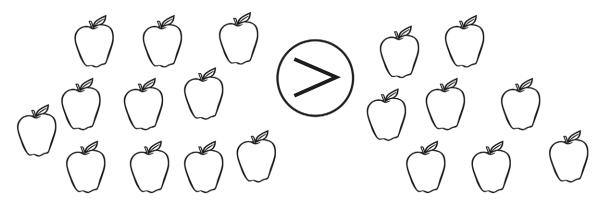


#### Greater Than and Less Than

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

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) 
$$17 < \underline{20}$$
 6)  $28 > \underline{1}$  7)  $99 < \underline{100}$  8)  $33 > \underline{29}$ 

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	<ul><li>⊕</li><li>⊕</li></ul>

#### 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
6	7	Sixth Roll = 2 – Placed in tens column second row
		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

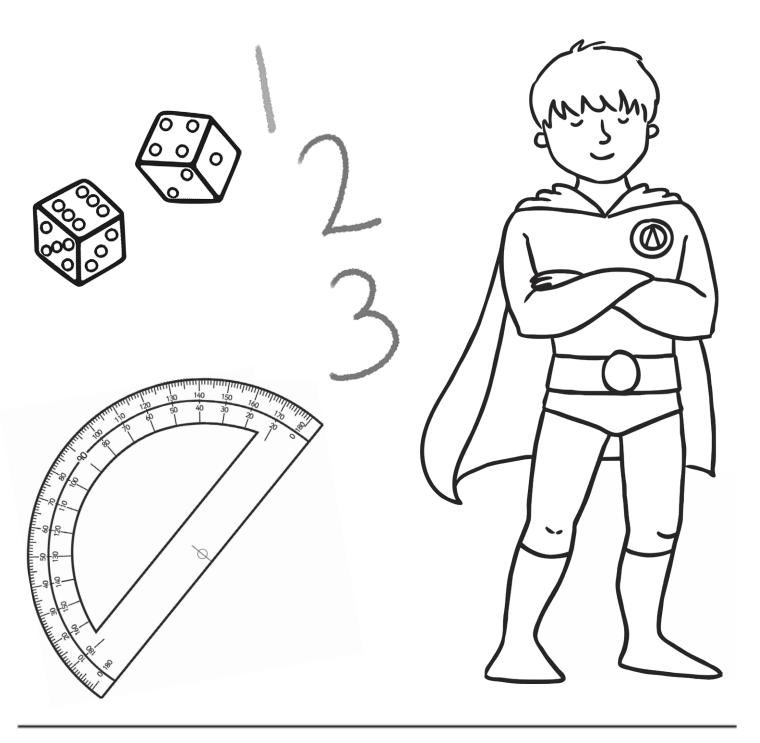
Got it? You're ready to make a start. You could also print off another sheet to play against someone else.

Tens	Ones	Points Scored
0	9	

Tens	Ones	Points Scored
1	3	

Tens	Ones	Points Scored
1	9	

# 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

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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) \_\_\_ 4 6 8 10 \_\_\_

f) \_\_\_ 24 21 \_\_\_ 15 12

b) 50 45 \_\_\_ 35 \_\_\_ 25

g) 35 40 \_\_\_ 50 \_\_\_ 60

c) \_\_\_ 6 9 12 \_\_\_ 18

h) 111 \_\_\_ 81 71 61

d) 90 \_\_\_ 60 50 40

i) \_\_\_ 32 30 28 26

e) 16 \_\_\_ 66

j) 10 20 \_\_\_ 50 60

#### Continue the following sequences:

03 6 9 \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_

n) 14 24 34 \_\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_\_ \_\_\_

q) 45 42 39 \_\_\_ \_\_ \_\_ \_\_ \_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

r) 70 68 66

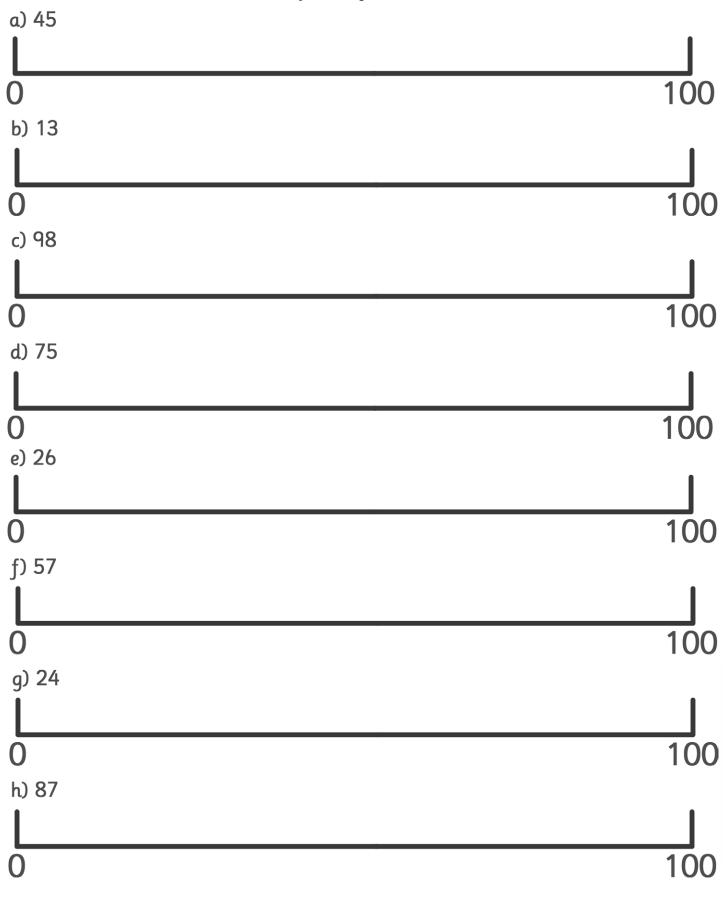
**Challenge:** Choose a starting number and count in 2 s, 5 s or 10 s from that number. Can you think of a way in which counting in 5 s is different from counting in 2 s or 10 s?

Number	Words	Expanded Form	Picture
12	tens	+ =	<b>77</b>
12	ones		
18	tens	+ =	
	8 ones		
	tens		
	ones	+ =	
	tens		
	ones	+=	
	tens		<del></del>
	ones	+=	
	tens		
	6 ones	40 +=	
56	tens		
56	ones	+=	

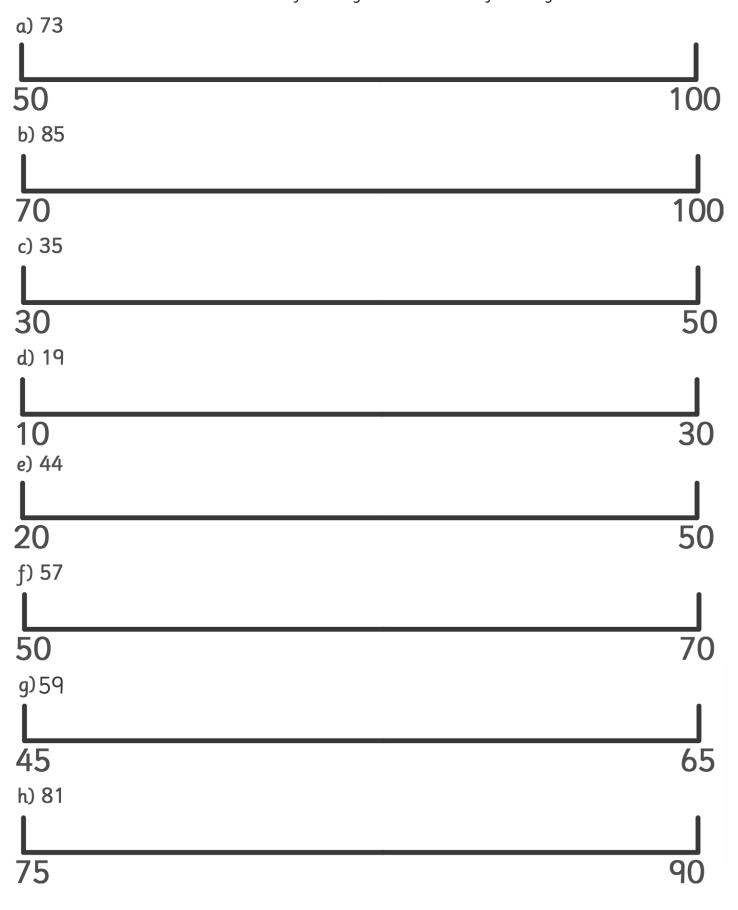
Number	Words	Expanded Form	Picture
	tens	50 + 2 =	
	ones	30 1 2	
	3 tens		
	9 ones	+=	
	tens	20 + 7=	
	ones	20 + 7 =	
	tens		
	ones	+=	
75	tens		
73	ones	+=	
15	tens		
15	ones	+=	
	tens		
	ones	70 + 8=	

Number	Words	Expanded Form	Picture
22	tens	+ =	
33	ones		
56	tens	+ =	
50	ones	·	
	_4_tens	4	
	ones	+ _4_ =	
	tens	50	
	7 ones	50 +=	
61.	tens		
04	ones	+=	
	tens		
	6 ones	80 +=	
92	tens		
72	ones	+=	

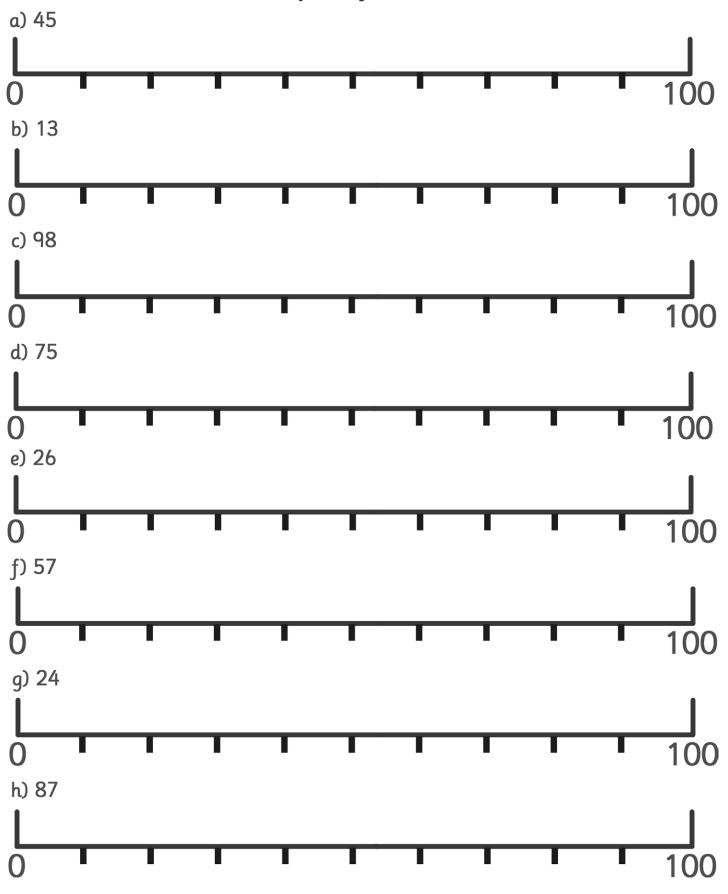
Draw an arrow to show the following numbers on the 0-100 number lines:



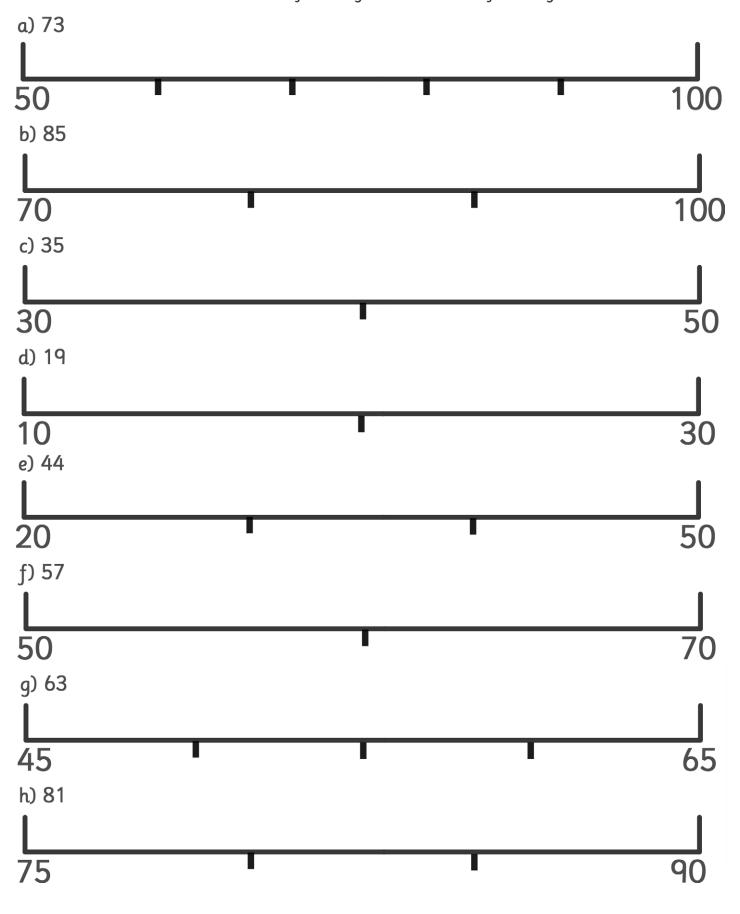
Draw an arrow to show the following numbers on the following number lines:



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



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



#### 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

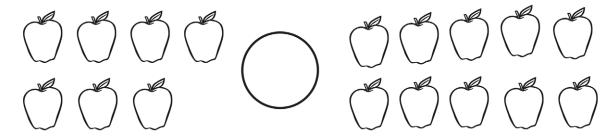
8) 22 20

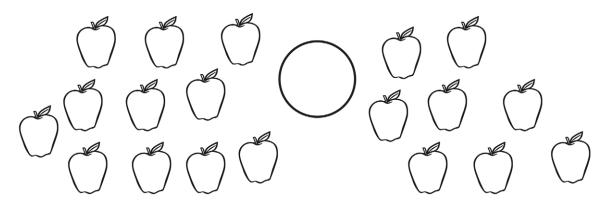
9) 70 67 10) 25 30 11) 30 24

12) 21

11

Great! Now try with pictures.





Can you give the below problems a number to make them right?

# Reading and Writing Numbers to 100 Worksheet

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			
34				
	fifty six	5	6	
		5	1	
49				
	eighty three			
		7	7	

#### Challenge

Numerals	Number in Words	Hundreds	Tens	Ones	Illustration

#### Place Value Challenge

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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
6	7	Sixth Roll = 2 – Placed in tens column second row
		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

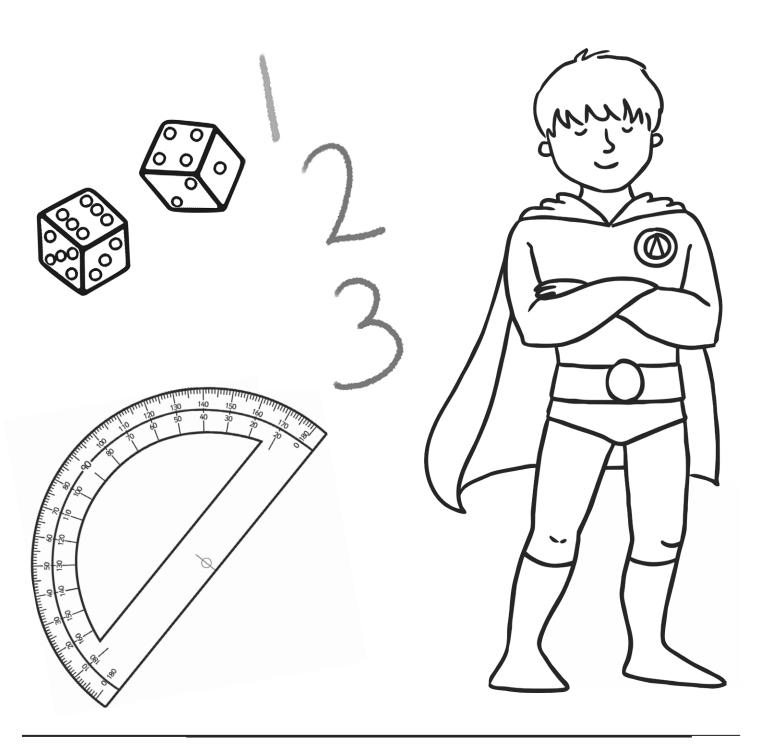
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Tens	Ones	Points Scored
0	9	

Tens	Ones	Points Scored
1	3	

Tens	Ones	Points Scored
1	9	

# Year 2 Maths Number and Place Value Workbook



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#### 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	
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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) \_\_\_ 4 6 8 10 \_\_\_

f) \_\_\_ 24 21 \_\_\_ 15 12

b) 50 45 \_\_\_ 35 \_\_\_ 25

g) 35 40 \_\_\_ 50 \_\_\_ 60

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Ы 111 \_\_\_ 81 71 61

d) 90 \_\_\_ 60 50 40

i) \_\_\_ 32 30 28 26

e) 16 \_\_\_ 66

j) 10 20 \_\_\_ 50 60

#### Continue the following sequences:

k) 5 10 15 \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_

03 6 9 \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_

p) 50 55 60 \_\_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ \_\_\_ \_\_\_

q) 45 42 39 \_\_\_ \_\_ \_\_ \_\_ \_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_

r) 70 68 66

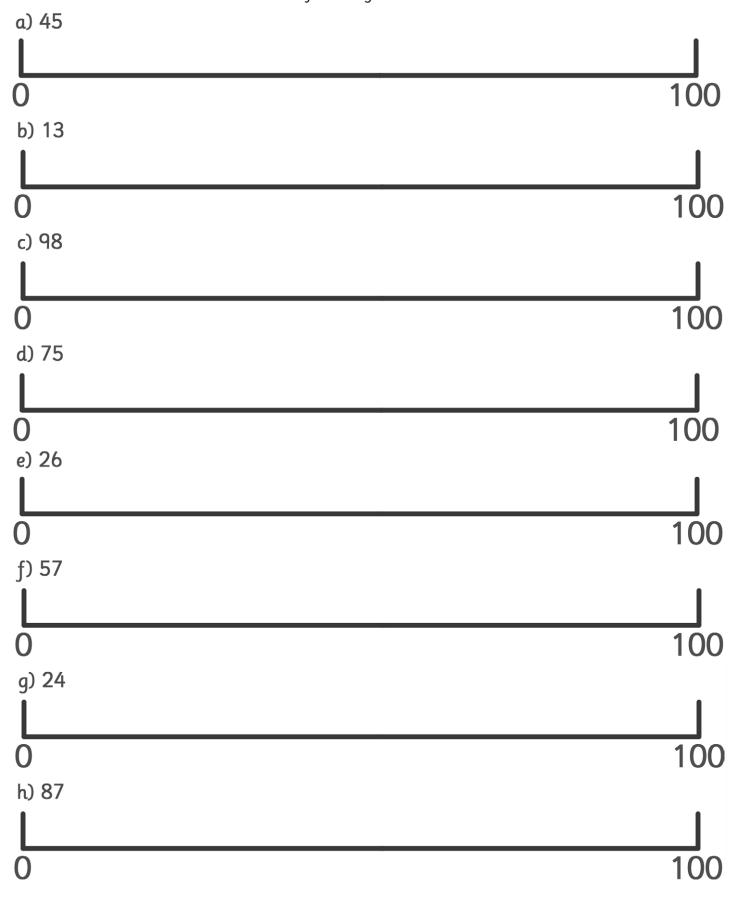
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Number	Words	Expanded Form	Picture
12	tens units	+=	88 ~~~~
18	tens 8 units	+=	
	tens units	+ =	
	tens units	+=	
	tens units	+=	
	tens 6 units	40 +=	
56	tens units	+=	

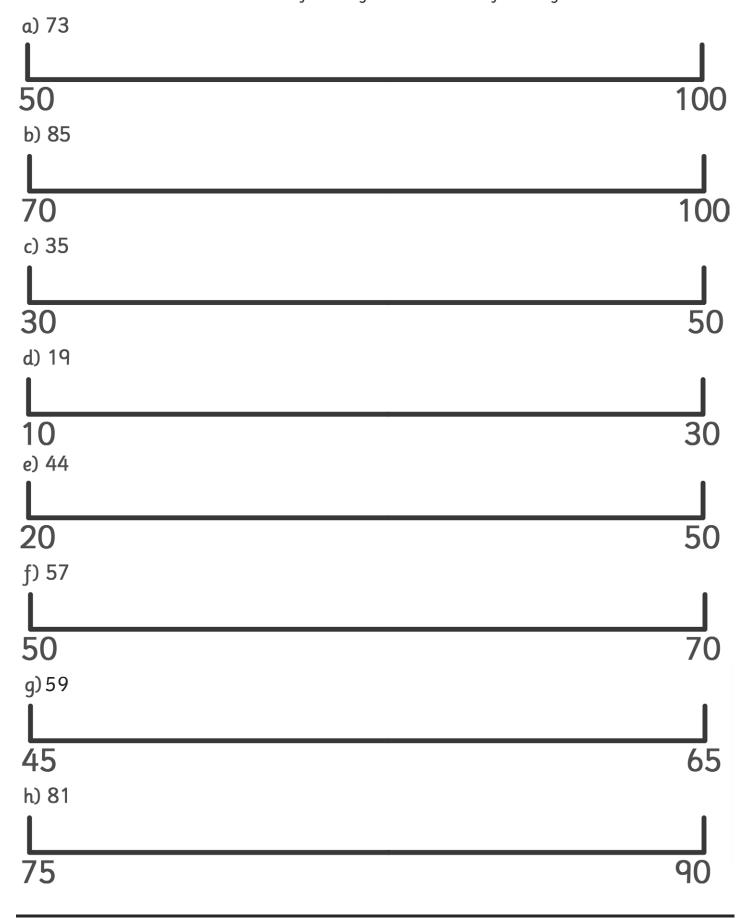
Number	Words	Expanded Form	Picture
	tens	50 + 2 =	
	units		
	3 tens		
	9 units	+=	
	tens	20 + 7=	
	units		
	tens		
	units	+=	
75	tens		
	units	+=	
15	tens		
13	units	+=	
	tens	70 0	
	units	70 + 8=	

Number	Words	Expanded Form	Picture
22	tens	+ =	
33	units		
56	tens	+ =	
50	units	·	
	_4_tens		
	units	+ _5_ =	
	tens		
	7 units	50 +=	
61.	tens		
04	units	+=	
	tens		
	6 units	80 +=	
92	tens		
72	units	+=	

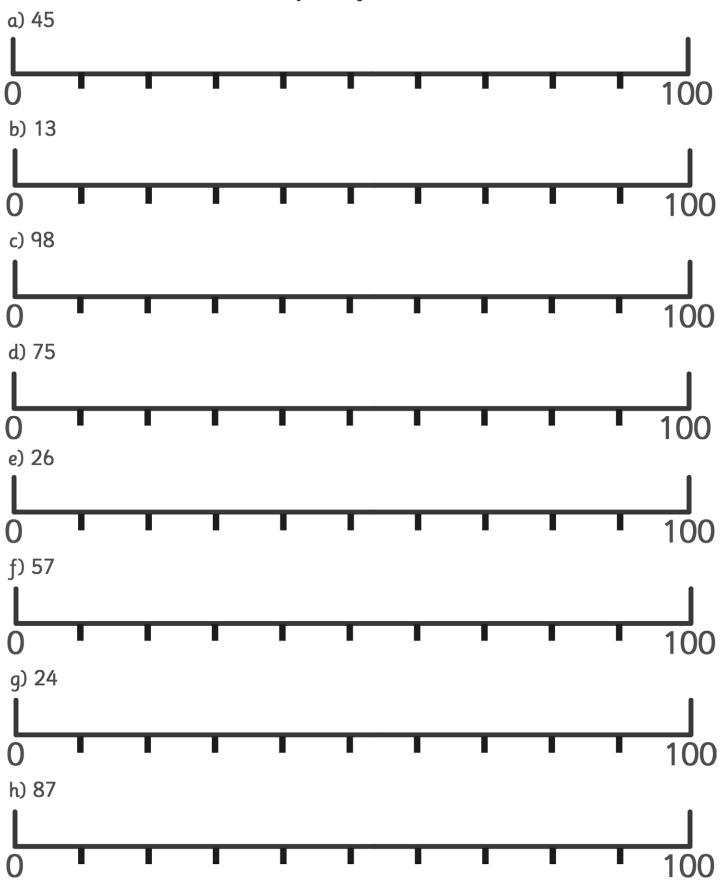
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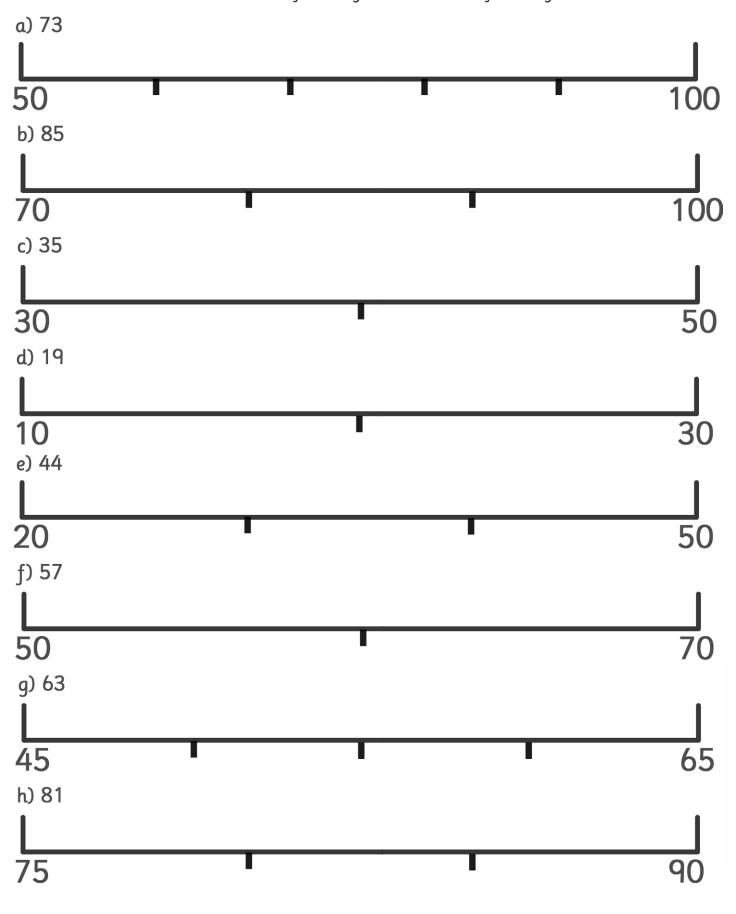
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Draw an arrow to show the following numbers on the 0-100 number lines:



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#### Greater Than and Less Than

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2) 30 22 3) 100 91

4) 46 41

5) 22 18 6) 64 46

7) 92 20

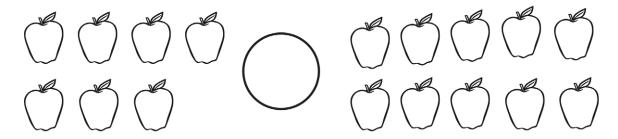
8) 22 20

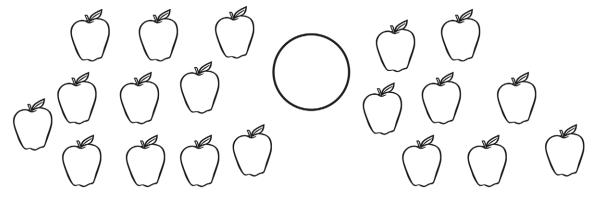
9) 70 67 10) 25 30 11) 30 24

12) 21

11

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Can you give the below problems a number to make them right?

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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	Units	Illustration
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17	seventeen			
34				
	fifty six	5	6	
		5	1	
49				
	eighty three			
		7	7	

# Challenge

Numerals	Number in Words	Hundreds	Tens	Units	Illustration

#### 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.

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

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

Tens	Units	Points Scored
0	9	

Tens	Units	Points Scored
1	3	

Tens	Units	Points Scored
1	9	