Odd and even numbers

Odd numbers always end in: 1 3 5 7 9

Even numbers always end in: 0 2 4 6 8

13	21	16	20
★★★★★★ ★★★★★★ ★	★★★★★★★★★★ ★★★★★★★★★★ ★	★★★★★★★★ ★★★★★★★★	★★★★★★★★★★ ★★★★★★★★★★

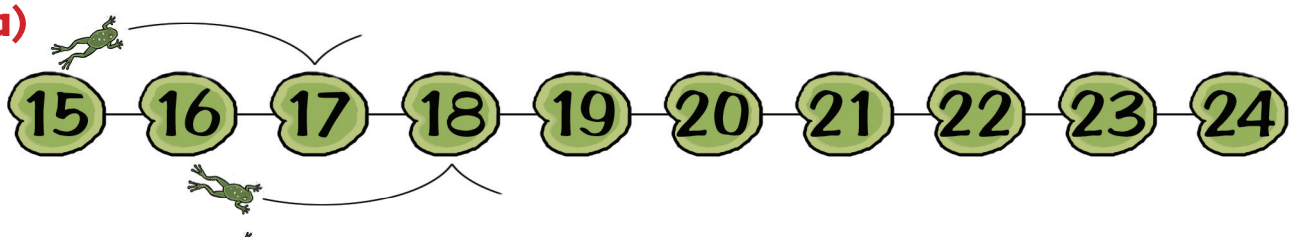
Even numbers can be put into 2 equal groups.
Odd numbers always have 1 left over.

1 Write odd or even for each number.
Look at the units digit to help.

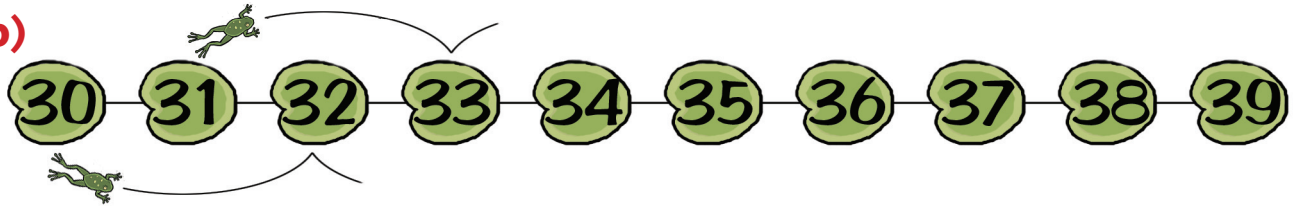
a) 24 **b)** 15 **c)** 30 **d)** 29
e) 17 **f)** 42 **g)** 21 **h)** 16

2 Draw jumps above the lines to show odd numbers.
Draw jumps below the lines to show even numbers.

a)



b)

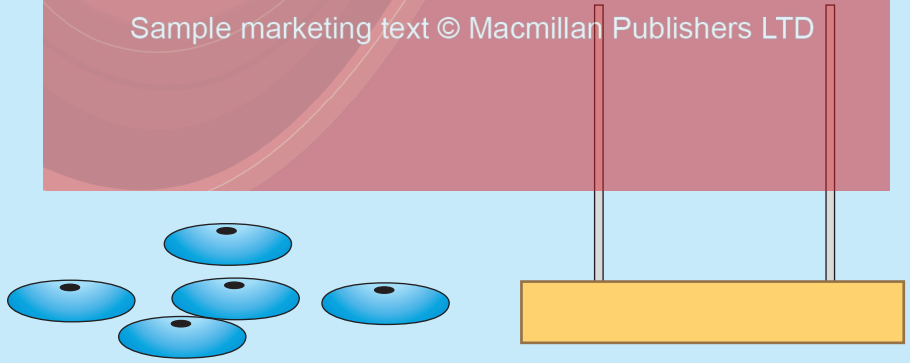


3 Sort these numbers into 2 groups. Write a list of all the odd numbers and all the even numbers.

Odd	Even

50 25 28 32 49 6 23 54 31 47

Try this



Draw an abacus.
Draw 5 beads on the abacus and write the number you have made.
Is the number odd or even?

Make a list of the odd numbers you can make on an abacus using 5 beads.

Make a list of the even numbers you can make on an abacus using 5 beads.

Patterns on grids

Look for patterns in number grids.

Count in 2s to find the red numbers.
Count in 5s to find the bold 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**

1 Continue the patterns on this grid.

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	37	38	39	40

a) Count in 2s and shade each number.

b) Count in 4s and circle each number.

c) Count in 5s and cross each number.

2 Draw these patterns on a 100 square.

- Colour blue ➜ the numbers 5, 10, 15 and continue colouring each number as you count in 5s.
- Cross X ➜ 10, 20, 30 and continue crossing the numbers as you count in 10s.

What do you notice about these patterns?

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	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Try this

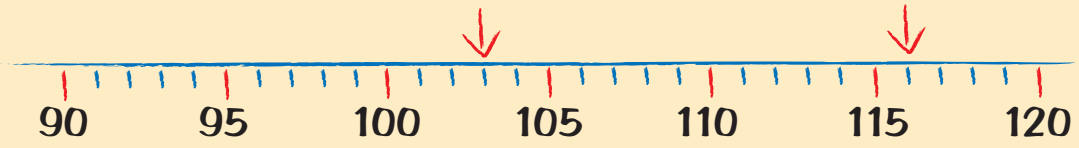
Complete this 100-square.

Count in 2s, 3s, 4s, 5s and 10s and look at the patterns on the grid.

	99				95				
									90
							73		
			64	65	66	67			
		43							50
40									31
21				25					
20			17	16				12	11
1	2	3							10

Number patterns

Look at the numbers on this number line. You can count in steps of 5.



Which numbers are the arrows pointing to?

103 and 116

1 Write the missing numbers on each number line.

a) 160 165 170 175 ☐ 185 ☐

b) 132 134 136 ☐ ☐ 142 144

c) 60 70 ☐ 90 100 ☐ 120

d) 75 ☐ 85 90 95 ☐ 105

e) 240 250 ☐ ☐ 280 290 300

f) 317 319 ☐ 323 325 327 ☐

2 Write the next two numbers in each sequence.

a) 100 110 120 ☐ ☐

b) 454 456 458 ☐ ☐

c) 560 570 580 ☐ ☐

d) 125 130 135 ☐ ☐

e) 193 195 197 ☐ ☐

f) 370 375 380 ☐ ☐

3 Write the next three numbers in each sequence.

a) 160 170 180 ☐ ☐ ☐

b) 195 197 199 ☐ ☐ ☐

c) 234 236 238 ☐ ☐ ☐

d) 410 420 430 ☐ ☐ ☐

e) 345 350 355 ☐ ☐ ☐

f) 620 622 624 ☐ ☐ ☐

Try this

Count back in steps and write the next two numbers.

a) 138 136 134 132 ☐ ☐

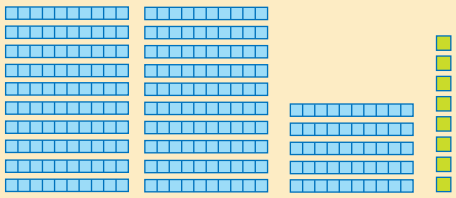
b) 140 130 120 110 ☐ ☐

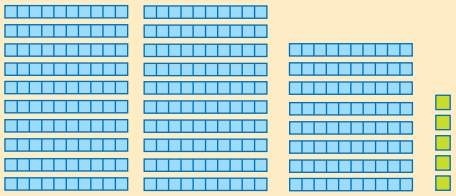
c) 200 195 190 185 ☐ ☐

Comparing numbers to 999

Which is the greater number, 258 or 285?

When you need to compare numbers, look carefully at the **digits**.





- 258 is 200 + 50 + 8
- 285 is 200 + 80 + 5

- Compare the hundreds, then the tens and then the units.
- 80 is greater than 50, so 285 is greater than 258.

1 Write the smaller number in each pair.

a) 231 213

b) 196 149

c) 317 462

d) 628 188

e) 273 236

f) 437 435

g) 624 642

h) 263 265

i) 518 427

j) 270 291

k) 646 636

l) 284 289

2 Write the greatest number in each set.

a)	291	295	259	**b)**	138	118	148
c)	255	162	226	**d)**	413	431	416
e)	227	224	229	**f)**	784	679	780
g)	326	363	332	**h)**	527	570	572

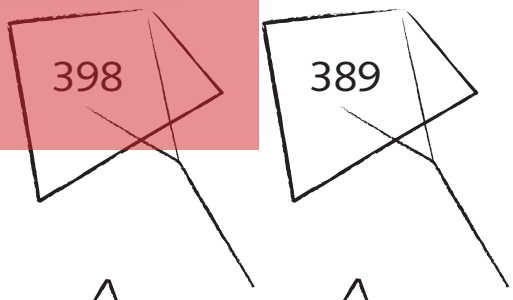
3 Colour the largest number in each pair.

a)

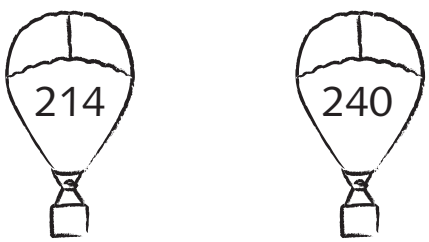
b)

c)

d)



e)



f)

g)

Ordering numbers to 999

To put 3-digit numbers in order, look at the **hundreds** digit first.
If any of the hundreds are the same then compare the **tens** digits.
If any tens are the same then compare the **units** digits.

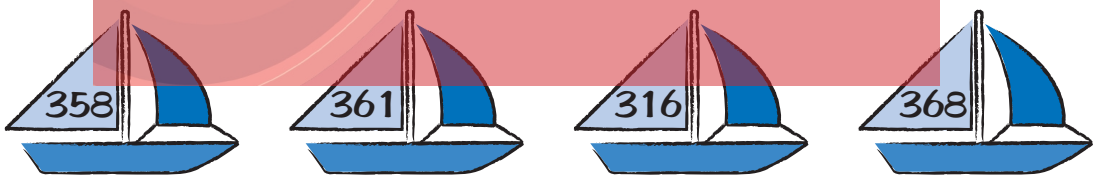
These numbers are in order, starting with the smallest.

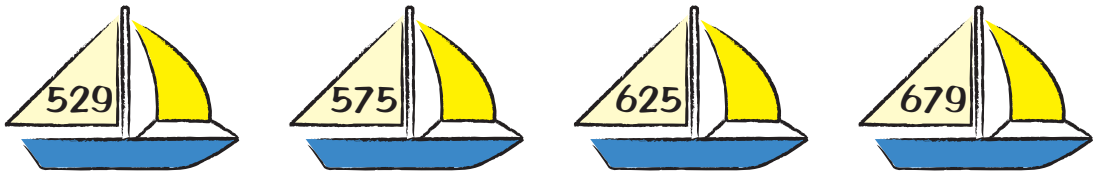
Smallest: 427
429
538
Greatest: 584

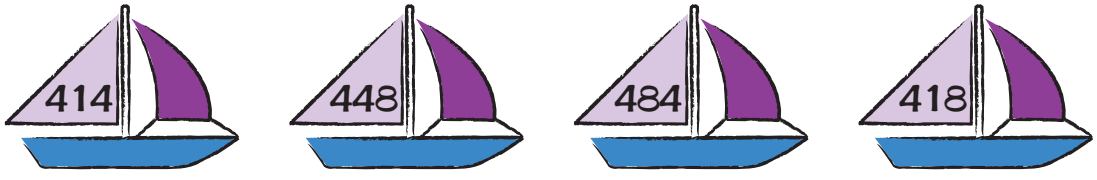
1 Write these numbers in order. Start with the smallest.

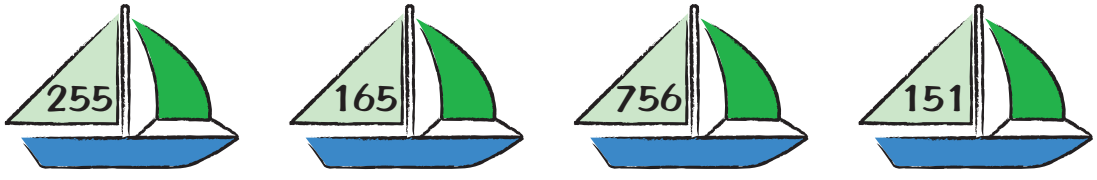
a) 

b) 

c) 

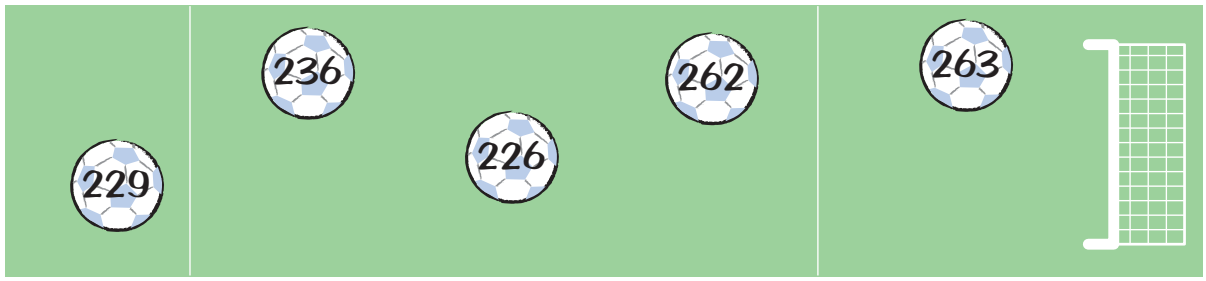
d) 

e) 

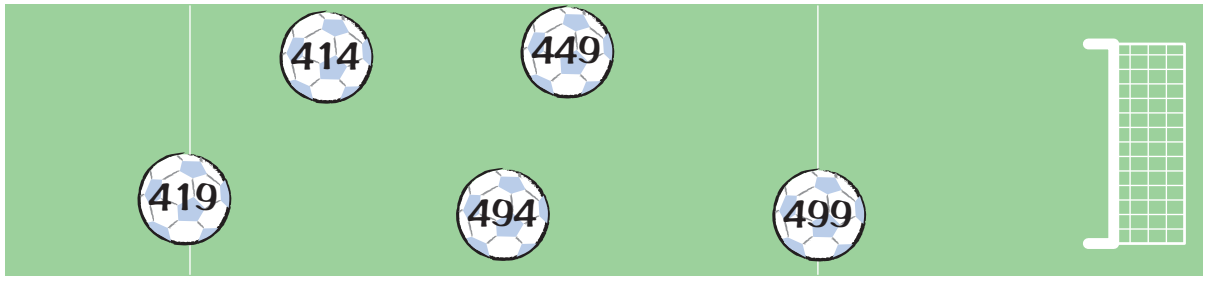
f) 

2 Join these numbers in order. Start with the smallest.

a)



b)



c)

d)

Assessment

Put these numbers in order, starting with the smallest.
What are the next five numbers in each sequence?

a) 143 139 141 137 145 147

b) 650 635 645 630 640 655

c) 480 510 530 490 500 520