

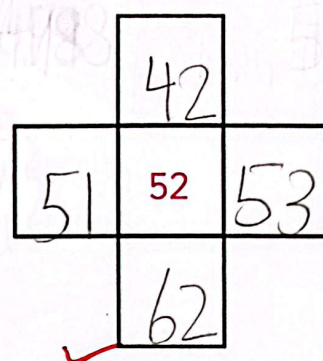
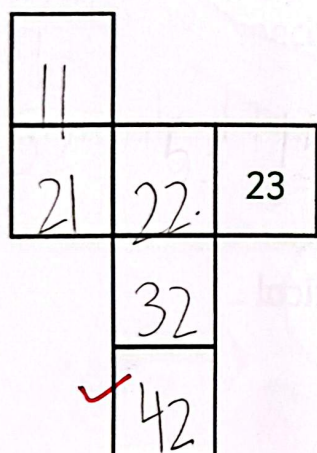
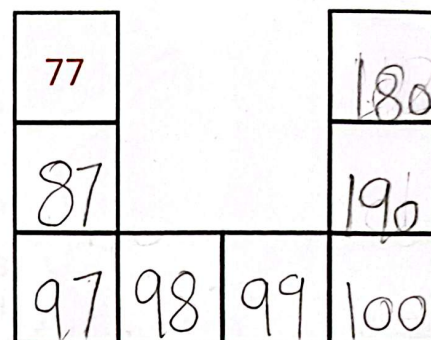
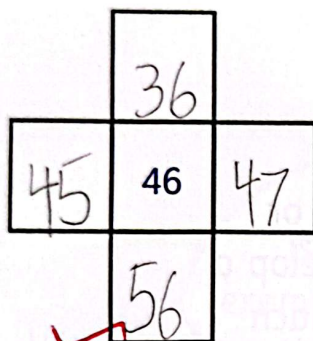
20-8-26

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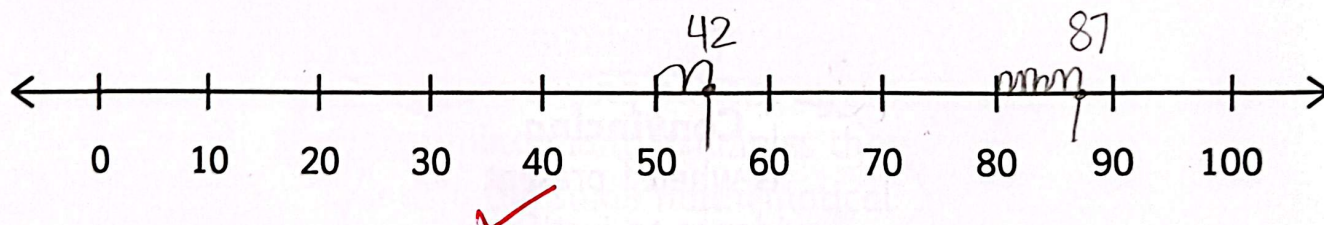
Numbers to 1000

Getting started

1 Complete the 100 square pieces.



2 Mark 42 and 87 on the number line.



3 Round each number to the nearest 10.

72 70

29 30

45 50

60 60

Exercise 1.1

1 Complete these pieces, which are from a 1 to 1000 number strip.

132			135
142			145
152	153	154	155

458		460
468		470
478	479	480
488		490
498		500

	246	
	156	
255	256	257
	266	
	356	

145	146	147
155		

	772	
	682	
781	782	783
	792	
	882	

201

2 Complete the missing numbers.

$$428 = \boxed{4}00 + \boxed{2}0 + \boxed{8}$$

$$913 = \boxed{9}00 + \boxed{1}0 + \boxed{3}$$

$$\boxed{5} \quad \boxed{7} \quad \boxed{6} =$$

$$500 + 70 + 6$$

$$\boxed{3} \quad \boxed{9} \quad \boxed{5} =$$

$$300 + 90 + 5$$

3 What 3-digit number is shown in each place value grid?

a

100s	10s	1s
★	★	★ ★ ★ ★ ★

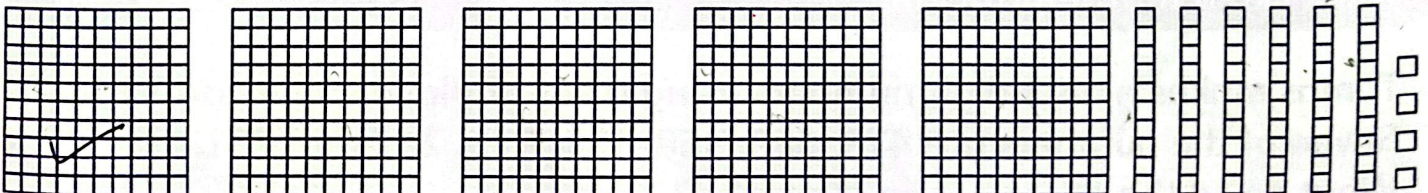
215

b

100s	10s	1s
★ ★ ★ ★ ★	★ ★ ★ ★ ★	★ ★

632

4 What 3-digit number is represented below?



564

Worked example 1

What is the value of the ringed digit in this 3-digit number?

4⑦2

472 is four hundred and seventy-two.

The 7 is in the tens place.

The value of the 7 is 7 tens, so it is 70.

It helps to say the number out loud.

You say the value of each digit as you read it.

5 What is the value of the ringed digit in each 3-digit number?

6③7 3 Tens, 30

10⑨ 9 ones 9

⑨21 9 hundred 900

3⑨4 9 Tens 90

76⑧ 8 ones, 8

②53 2 hundred 200

Which tens values have not been used in these numbers?

20, 60, 0 Tens, 50

Is it easier to find the value of the hundreds, tens or ones digit?
Why do you think that is?

Think like a mathematician

Tomas makes nine 3-digit numbers using a set of place value cards. Seven of the numbers are 473, 689, 358, 134, 925, 247 and 791. What could the other two numbers be?

Compare your numbers with those of someone else in your class.

If your numbers are different, can you explain?

H.W

24.8.26
1.1 Hundreds, tens and ones

6 Use these number words to write four 3-digit numbers in words.

hundred	eight	and	seventy-	fifty-	three
---------	-------	-----	----------	--------	-------

1 eight hundred and seventy three.

✓ 2 three hundred and fifty eight.

3 eight hundred and fifty three.

4 ~~three~~ hundred and seventy eight.

✓ 25/ Aug, 26

Look what I can do!

- ☐ I can say, read and write numbers and number words from 0 to 1000.
- ✓ ☒ I know the value of each digit in a 3-digit number.
- ✓ ☒ I can count on and count back in steps of 1 and 10 from any number.



> 1.2 Comparing and ordering

We are going to ...

- compare numbers by looking at the value of each digit in turn
- use the inequality symbols is less than, $<$, and is greater than, $>$, when comparing two numbers
- order numbers from smallest to greatest and from greatest to smallest.

When you know the value of each digit in a 3-digit number, you can compare numbers and use what you find out to put them in order. You can also estimate where a number belongs on the number line.

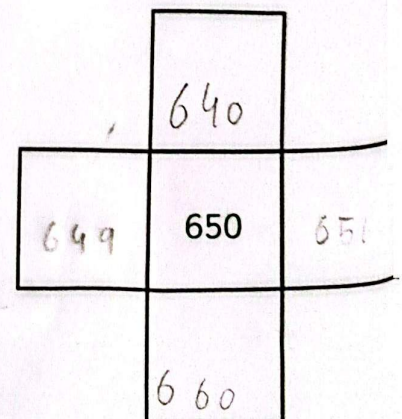
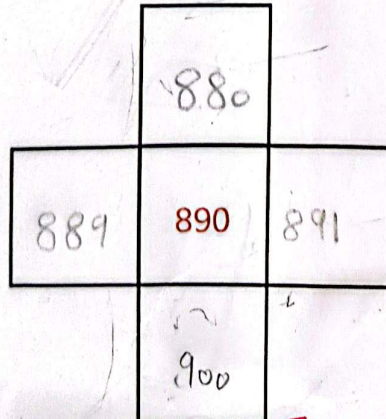
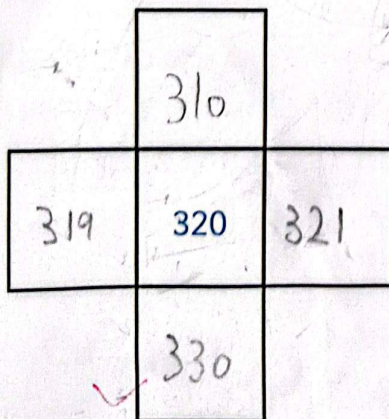
digit inequality
inequalities
is greater than, $>$
is less than, $<$
symbol

375 is less than
475. 375 comes
before 475 on the
number line.



Exercise 1.2

1 Complete these pieces from a 1000 square.



2 Compare these numbers and complete the sentences.

a

100s	10s	1s
4	5	8
6	4	3

643 is greater than 458

and 458 is less than 643.

b

100s	10s	1s
4	7	5
4	7	2

475 is greater than 472

and 472 is less than 475.

c

100s	10s	1s
8	3	8
8	8	3

883 is greater than 838

and 838 is less than 883.

3 Order these numbers from smallest to greatest.

679

475

621

38

563

38

475

563

621

679

smallest

greatest

4 Order these numbers from greatest to smallest.

48

834

438

384

483

834

483

438

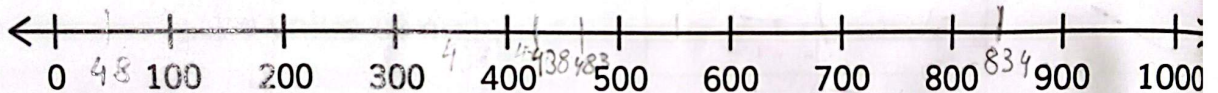
384

48

greatest

smallest

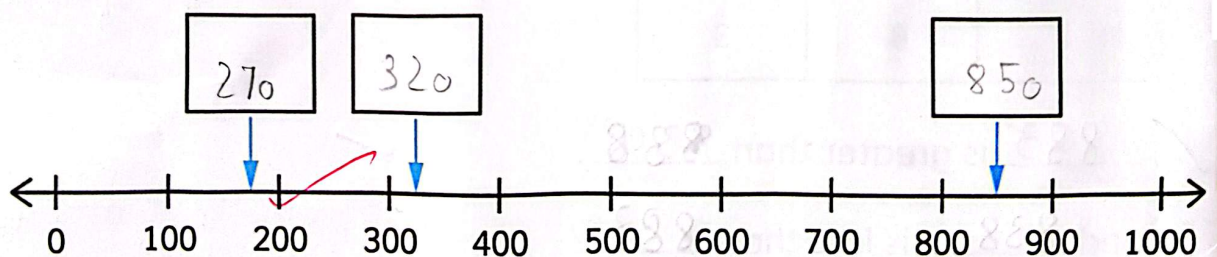
5 Mark the numbers in question 4 on the number line.



6 Estimate the value of each number marked on the number line.

Tip

Remember that 'estimate' means a sensible guess.



7 Complete these inequalities.

$$164 < 263$$

$$671 < 732$$

$$372 > 457$$

$$346 > 847$$

18 >

4/sep

> 1.3 Estimating and rounding

We are going to ...

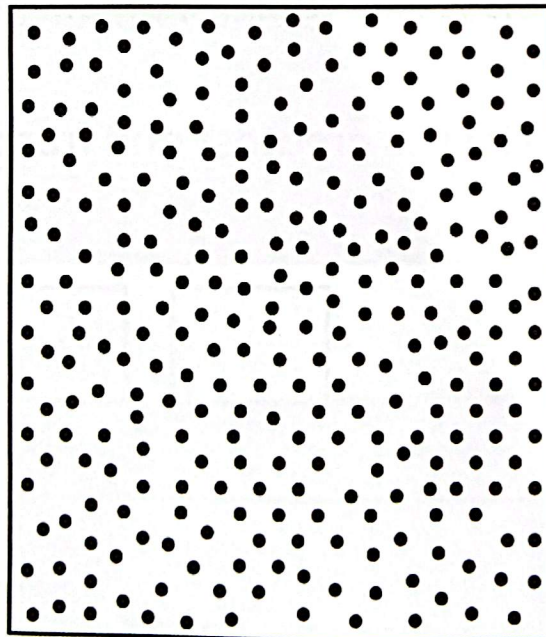
- estimate quantities by giving a range of numbers as an estimate
- round numbers to the nearest 10
- round numbers to the nearest 100.

You don't always need to know how many there are. Often, an estimate is enough. You can estimate by giving a range of numbers or by rounding a number to the nearest 10 or 100.

estimate
range
round, round

Exercise 1.3

1 Estimate how many spots there are in the box.



1000

- 2 Class 3 use this table to check their estimates of the number of beans in different containers.

Number of beans	Mass of beans
100	10 grams
200	20 grams
300	30 grams
400	40 grams
500	50 grams
600	60 grams
700	70 grams
800	80 grams
900	90 grams
1000	100 grams

- a Marcus estimates that his bowl has 400 to 500 beans.

They weigh 56 grams. Is this a good estimate? No

- b Zara estimates that her plastic bag has 200 to 300 beans.

They weigh 24 grams. Is this a good estimate? Yes

- c Arun's beans weigh 78 grams.

What range would be a good estimate for his beans? 700-800

- 3 Round each number to the nearest 10.

✓ 123 120

678 680

385 390

907 910

740 740

598 600

1 Numbers to 1000

4 Round each number to the nearest 100.

123

100

678

700

385

400

907

900

740

700

598

600

If the numbers in questions 3 and 4 were dollars (\$), grams or kilometres, could you round them to the nearest 10 or 100 dollars (\$), grams or kilometres?

- 5 Which number in questions 3 and 4 rounds to the same number when rounded to the nearest 10 and to the nearest 100?

598

Think like a mathematician

When a number is rounded to the nearest 10 and the same number is rounded to the nearest 100, the answer is the same. What could the number be?

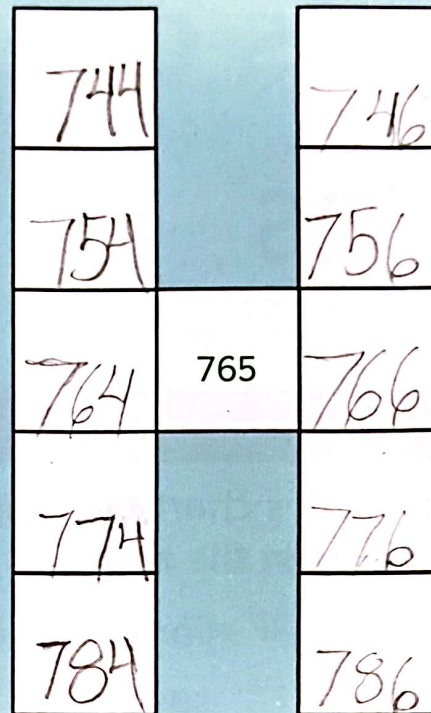
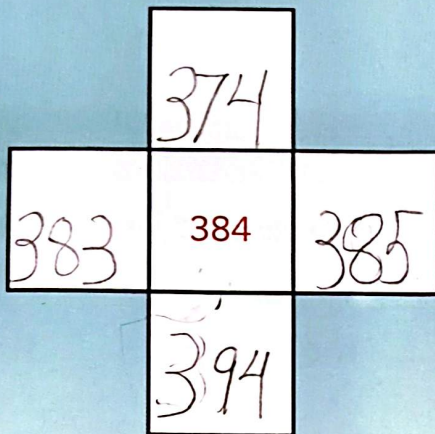
Sofia includes 100, 200, 300, 400, 500, 600, 700, 800, 900 and 1000 in her list of numbers. Do you agree with her? Why?

Look what I can do!

- ☐ I can estimate quantities by giving a range of numbers as an estimate.
- ☐ I can round numbers to the nearest 10.
- ☐ I can round numbers to the nearest 100.

Check your progress

1 Complete these pieces, which are from a 1 to 1000 number strip.



2 What is the value of the ringed digit in each 3-digit number?

56⑦ ones
 6⑦4 tens, 70
 ⑧88 hundreds, 800

⑦29 hundreds, 700
 92③ ones
 4④4 tens, 40

3 Write the missing numbers.

Number	Round to the nearest 10	Round to the nearest 100
234	230	200
471	470	500
896	900	900
750	750	800
303	300	300
987	990	1000