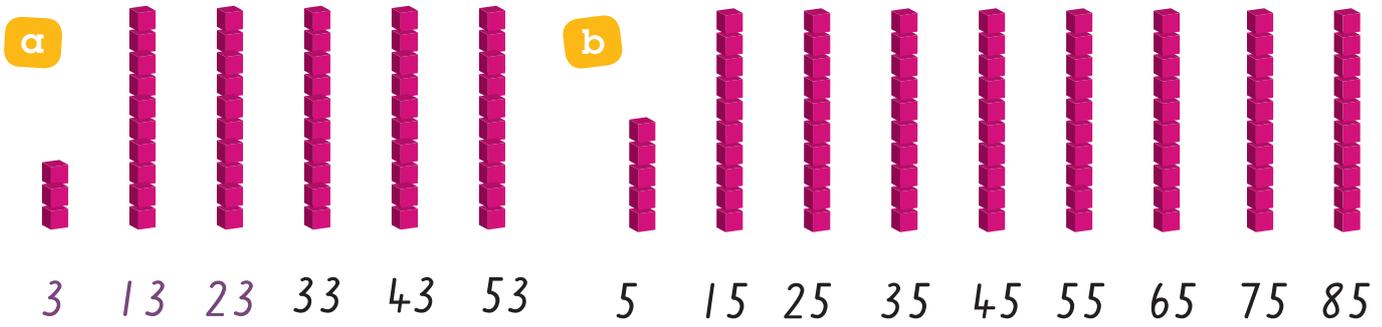
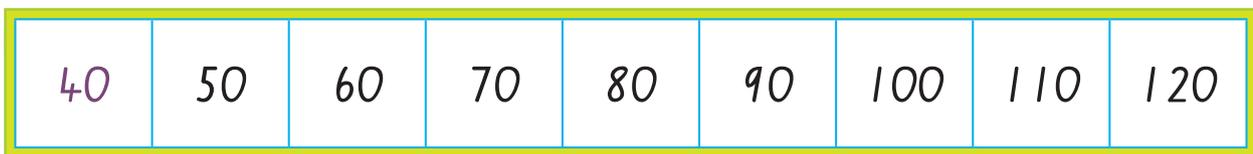


Number patterns

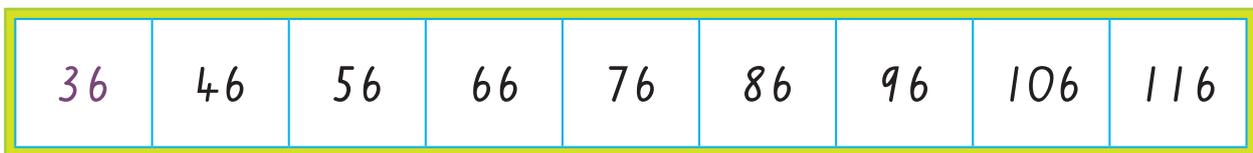
1 Repeatedly add ten to complete these number patterns.



2 **a** Start at 40 and count forwards by tens.



b Start at 36 and count forwards by tens.



c Start at 337 and count backwards by tens.



3 **a** I am between 80 and 90. When you count by tens from 7, you say me.

I am

b I am between 20 and 30. When you count back by tens from 86, you say me.

I am

Twos, fives and tens

1 Complete each number pattern.

a $10, 20, 30$

b $20, 25$ 35

c $50, 45, 40$

d 170 $150, 140$

e $83, 85, 87$

f $112, 114, 116$

2 Say the numbers in order to find which number is missing from the pattern. Write the missing number.

30 80
 70
60 40
 20

a is missing.

40 35
 10
25 15
 20

b is missing.

400 200
 300
150 450
 250

c is missing.

245 248
 233
230 239
 236

d is missing.



Which numbers are we? You say us when you count by 2s from 0. Our digits are the same. We are less than 100.

We are

Reading and writing numbers

1 Draw a line to match each number to its name.

706	—	six hundred and seventy-two
672	—	six hundred and seventy
607	—	seven hundred and six
670	—	two hundred and fifty-four
254	—	six hundred and seven

2 Write the number represented by the each abacus.

a

H T O

703

b

H T O

652

c

H T O

440

d

H T O

700

e

H T O

522

f

H T O

643



What is the number?

a 13 tens and 5 ones

135

b 21 tens and 7 ones

217

c 15 tens and 3 ones

153

d 34 tens

340

MiB 1
Card
27

Number line patterns

1 Press $\boxed{2}$ $\boxed{+}$ $\boxed{+}$ and $\boxed{=}$ on a calculator.

Keep pressing $\boxed{=}$ to make the calculator count by 2s.

2 Use a calculator to count to 50 by 5s and by 10s.

a Write the number patterns.

fives	5	10	15	20	25	30	35	40	45	50
-------	---	----	----	----	----	----	----	----	----	----

tens	10	20	30	40	50
------	----	----	----	----	----

Discuss why there are numbers that are the same.

b Which numbers are the same? $\boxed{10}$ $\boxed{20}$ $\boxed{30}$ $\boxed{40}$ $\boxed{50}$

3 Start at 24 and jump backwards by 2s to 0.



When you count back by 2s, how many jumps from 24 to

a 20? $\boxed{2}$

b 18? $\boxed{3}$

c 0? $\boxed{12}$

d 2? $\boxed{11}$

Draw how to jump back to zero from 20 in 5 equal jumps.



Odds and evens

1 Colour the odd numbers red and the even numbers green.

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



2 Complete these odd and even number patterns.

a 31, 33, 35

37

39

41

b 23, 25, 27

29

31

33

c 40, 42, 44

46

48

50

d 152, 154, 156

158

160

162

3 Add the even numbers below, and write the answers in the boxes.

a $20 + 6 = 26$

b $8 + 42 = 50$

c $100 + 12 = 112$

d Are the answers odd or even? even

4 Add the odd numbers below, and write the answers in the boxes.

a $21 + 9 = 30$

b $3 + 47 = 50$

c $101 + 15 = 116$

d Are the answers odd or even? even

5 Add the odd and even numbers below, and write the answers in the boxes.

a $20 + 7 = 27$

b $43 + 8 = 51$

c $101 + 12 = 113$

d Are the answers odd or even? odd

MiB 1
Card
70

Number trains

1 Write a number sentence for each number train. The first one has been done for you.



$$7 + 5 = 12$$



$$4 + 8 = 12$$



$$5 + 7 = 12$$



$$2 + 10 = 12$$



$$9 + 3 = 12$$



$$10 + 2 = 12$$



$$12 + 0 = 12$$



$$4 + 8 = 12$$



$$1 + 11 = 12$$



$$0 + 12 = 12$$



$$5 + 7 = 12$$



$$11 + 1 = 12$$

2 Make each number train from Question 1 using Base 10 blocks. Put the trains in an order to find the one that is missing. Colour in the number train and write its number sentence.



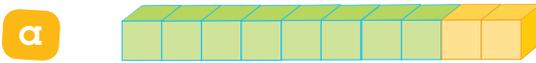
$$3 + 9 = 12$$

Two numbers add to 20. With a friend, list all the possible number combinations that can add to equal 20.

MiB 1
Card
43

Family of numbers

1 Write 4 number sentences to describe each of these number families.



$$8 + 2 = 10$$

$$2 + 8 = 10$$

$$10 - 8 = 2$$

$$10 - 2 = 8$$

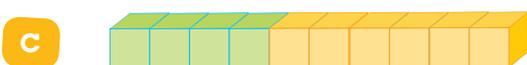


$$3 + 7 = 10$$

$$7 + 3 = 10$$

$$10 - 3 = 7$$

$$10 - 7 = 3$$



$$4 + 6 = 10$$

$$6 + 4 = 10$$

$$10 - 6 = 4$$

$$10 - 4 = 6$$

2 Write the number families for each of these.

a $9 + 1 = 10$

$$1 + 9 = 10$$

$$10 - 1 = 9$$

$$10 - 9 = 1$$

b $15 + 3 = 18$

$$3 + 15 = 18$$

$$18 - 3 = 15$$

$$18 - 15 = 3$$

c $14 + 6 = 20$

$$6 + 14 = 20$$

$$20 - 6 = 14$$

$$20 - 14 = 6$$

3 a If $27 + 13 = 40$, then $40 - 27 = 13$

b If $20 - 7 = 13$, then $13 + 7 = 20$

Addition patterns

1 Complete these addition cards.

Look at each card and describe the patterns.

a

$$5 + 10 = 15$$

$$5 + 20 = 25$$

$$5 + 30 = 35$$

$$5 + 40 = 45$$

$$5 + 50 = 55$$

$$5 + 60 = 65$$

$$5 + 70 = 75$$

b

$$7 + 10 = 17$$

$$17 + 10 = 27$$

$$27 + 10 = 37$$

$$37 + 10 = 47$$

$$47 + 10 = 57$$

$$57 + 10 = 67$$

$$67 + 10 = 77$$

c

$$2 + 0 = 2$$

$$12 + 0 = 12$$

$$22 + 0 = 22$$

$$32 + 0 = 32$$

$$42 + 0 = 42$$

$$52 + 0 = 52$$

$$62 + 0 = 62$$

d

$$12 + 10 = 22$$

$$12 + 20 = 32$$

$$12 + 30 = 42$$

$$12 + 40 = 52$$

$$12 + 50 = 62$$

$$12 + 60 = 72$$

$$12 + 70 = 82$$

What does each card show you about addition?

2

Write the next question for each pattern.

$$5 + 80 = 85$$

$$77 + 10 = 87$$

$$72 + 0 = 72$$

$$12 + 80 = 92$$

Subtraction patterns

1 Complete these subtraction cards.

Look at each card and describe the patterns.

a

$10 - 10 = 0$

$20 - 10 = 10$

$30 - 10 = 20$

$40 - 10 = 30$

$50 - 10 = 40$

$60 - 10 = 50$

$70 - 10 = 60$

b

$5 - 1 = 4$

$15 - 1 = 14$

$25 - 1 = 24$

$35 - 1 = 34$

$45 - 1 = 44$

$55 - 1 = 54$

$65 - 1 = 64$

c

$8 - 0 = 8$

$18 - 0 = 18$

$28 - 0 = 28$

$38 - 0 = 38$

$48 - 0 = 48$

$58 - 0 = 58$

$68 - 0 = 68$

d

$100 - 10 = 90$

$100 - 20 = 80$

$100 - 30 = 70$

$100 - 40 = 60$

$100 - 50 = 50$

$100 - 60 = 40$

$100 - 70 = 30$

What does each card show you about subtraction?

2 Write the next question for each pattern.

$80 - 10 = 70$

$75 - 1 = 74$

$78 - 0 = 78$

$100 - 80 = 20$

Is the same as

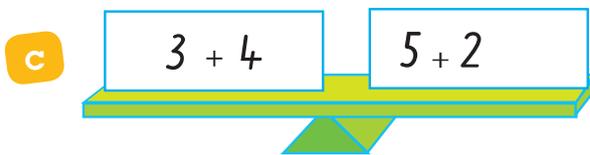
1 Write the number needed to balance each scale. Complete the number sentence to match.



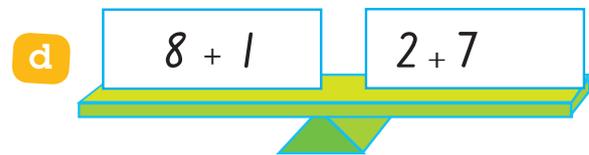
20 is the same as $16 + 4$.



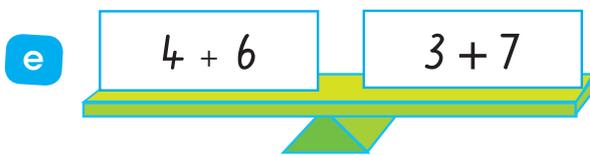
20 is the same as $5 + 15$.



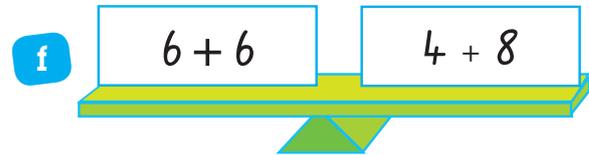
$3 + 4$ is the same as $5 + 2$.



$8 + 1$ is the same as $2 + 7$.



$4 + 6 = 7 + 3$.



$6 + 6 = 4 + 8$.

2 Try these.

a $20 = 17 + 3$

b $12 + 8 = 10 + 10$

c $7 + 5 = 10 + 2$

d $30 + 70 = 50 + 50$

