Counting

1 Count on by ones to complete these.

a 59, 60, 61 [62] [63]

b 88, 89 [90] [91]

c 97, 98 [99] [100]

d 108, 109 [110] [111]

e 134, 135 [136] [137]

2 Count back by ones to complete these.

a 73, 72 [71] [70]   b 92, 91 [90] [89]

c 103, 102 [101] [100]   d 134, 133 [132] [131]

3 Write the number that is two more than

a 64. [66]   b 141. [143]

c 103. [105]   d 99. [101]

4 Write the number that is one before

a 61. [60]   b 49. [48]

c 55. [54]   d 45. [44]

e 121. [120]   f 137. [136]

g 102. [101]   h 110. [109]

5 Write the number that is between these numbers.

a 68 [69] 70   b 80 [81] 82

c 89 [90] 91   d 111 [112] 113

e 139 [140] 141   f 127 [128] 129

Two-digit numbers

1 Draw a line to match each number to its description and picture.

| 2 tens 5 ones |
| 4 tens 7 ones |
| 4 tens 5 ones |
| 2 tens 6 ones |

45 25 47 26

2 Write the number of tens in

a 56. [5]   **b** 71. [7]

c 82. [8]   **d** 50. [5]

e 67. [6]   **f** 39. [3]

g 46. [4]   **h** 90. [9]

3 Split these numbers.

a 78 is [70] + [8]   **b** 66 is [60] + [6]

c 91 is [90] + [1]   **d** 45 is [40] + [5]

4 Try these.

a 135 is [100] + [30] + [5]

a 257 is [200] + [50] + [7]
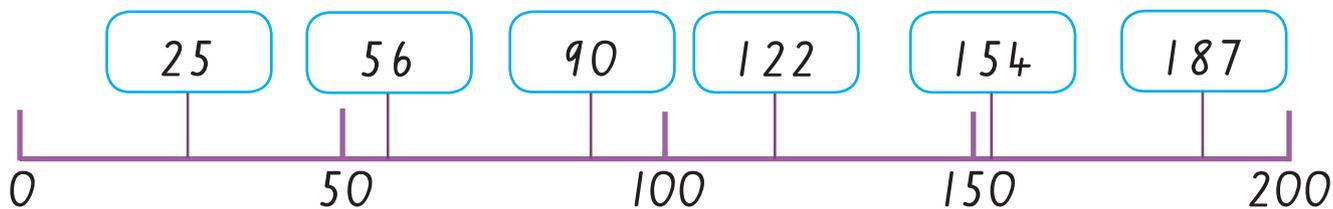
MiB 1 Card 19

2 Number and Place Value

All in order

1 Write each number in its correct place along the number line.
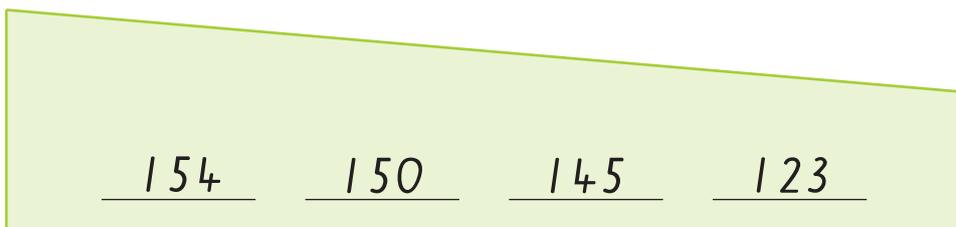
154   25   122   90   56   187

| 25 | 56 | 90 | 122 | 154 | 187 |

0   50   100   150   200

2 Order the numbers in the boxes from

a **largest to smallest**.

123   154   145   150

___154___   ___150___   ___145___   ___123___

b **smallest to largest**.

165   140   174   156

___140___   ___156___   ___165___   ___174___
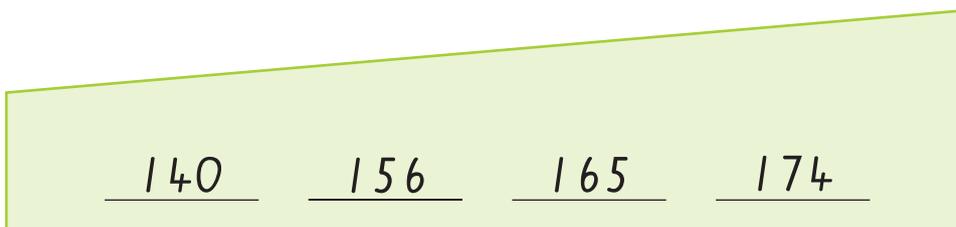
3 Order these numbers from **smallest to largest**.

160   253   235   106

___106___   ___160___   ___235___   ___253___

Number and Place Value   **3**
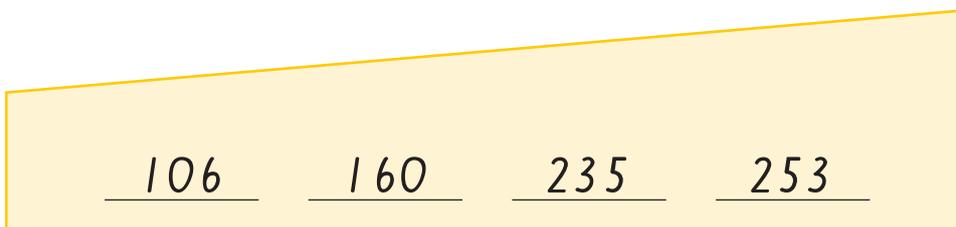
Changing numbers

1 Write the number that is *10* more than

a 150. `160` **b** 221. `231` **c** 174. `184`

d 300. `310` **e** 445. `455` **f** 540. `550`

g 401. `411` **h** 592. `602` **i** 410. `420`

2 Write the number that is *10* less than

a 230. `220` **b** 137. `127` **c** 216. `206`

d 385. `375` **e** 434. `424` **f** 560. `550`

g 517. `507` **h** 403. `393` **i** 410. `400`

3 Write the number that is *100* more than

a 37. `137` **b** 314. `414`

c 550. `650` **d** 600. `700`

4 Write the number that is *100* less than

a 236. `136` **b** 324. `224`

c 220. `120` **d** 587. `487`

5 Look at the calculator on the right. What would

you `+` and `−` to change

a the 4 into a 5? `+10`

b the 4 into a 3? `−10`

c the 3 into a 5? `+200`

d the 6 into a 0? `−6`

Use a calculator to check if you are correct.

ELECTRONIC CALCULATOR

346.

AUTO POWER OFF

% √ +/−

MC MR M− M+ ÷

OFF 7 8 9 ×

CE 4 5 6 −

AC 1 2 3 +

ON/C 0 . =

4 **Number and Place Value**
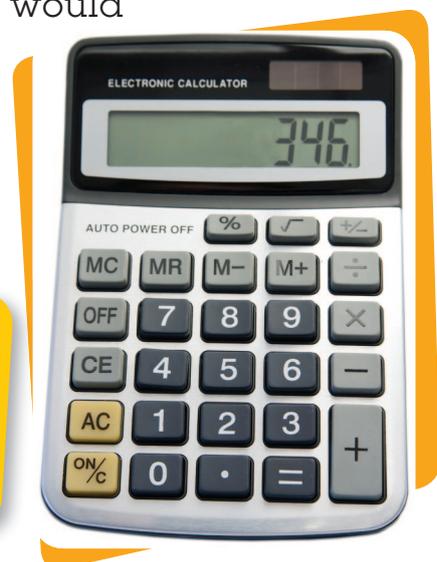
Making numbers

1 Circle the **larger** number in each pair.

130 (310)   131 (313)   (224) 123

(394) 349   307 (370)   447 (474)

2 Use each set of cards to write the largest possible 3-digit number.

5 1 2   1 4 2   3 3 4   2 5 8

521   421   433   852

3 **a** Use this set of cards to write all possible 3-digit numbers.

4 1 2

412   241

421   124

214   142

b Place the 3-digit numbers in order on the counting ladder.

Largest

421

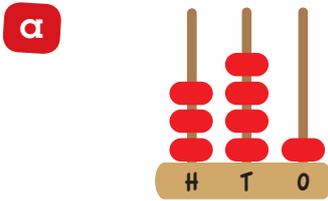412

241

214

142

124

Smallest

4 Write the largest possible number using 2, 0 and 4.

420
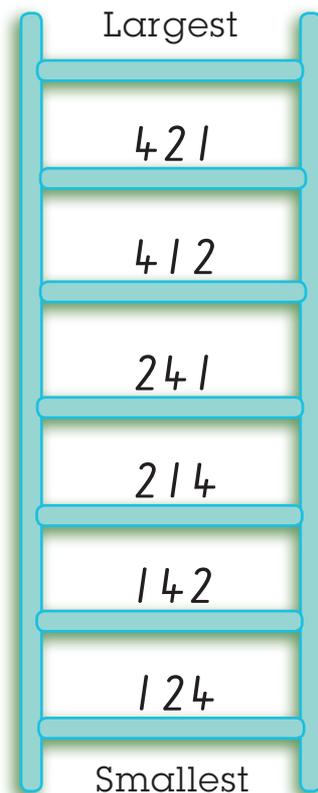
Three-digit numbers

1 Write the number shown on each abacus.

a
H T O
341
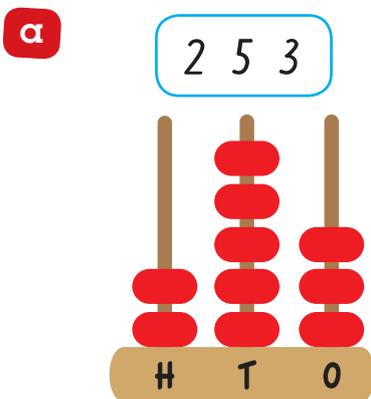
b
H T O
434
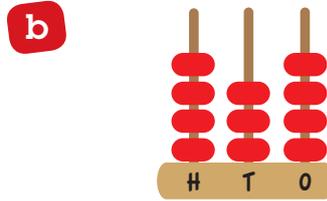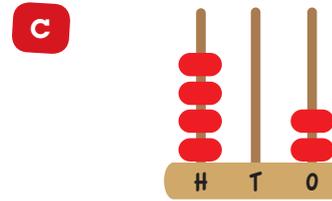
c
H T O
402

2 Show each number on its abacus.

a 2 5 3
H T O

b 1 4 0
H T O

c 3 0 5
H T O
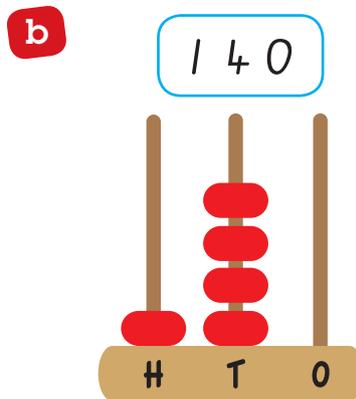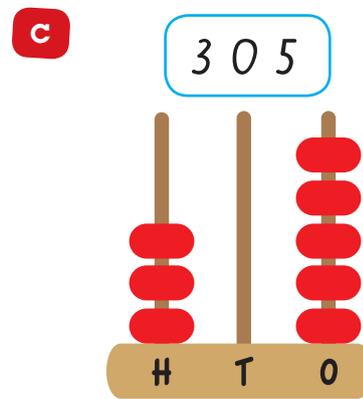
3 Write the number on each numeral expander.

a 273

2	hundreds	7	tens	3	ones

b 357

3	hundreds	5	tens	7	ones

c 504

5	hundreds	0	tens	4	ones

4 Expand these numbers.

a **235** is 200 + | 30 | + 5   **b** **476** is 400 + 70 + | 6 |

c **341** is | 300 | + | 40 | + | 1 |

MiB 1 Card 26

6 **Number and Place Value**

Rounding money

1 Round the price of each book to the nearest **5** cents.

A **41c**   B **36c**   C **74c**   D **89c**   E **99c**
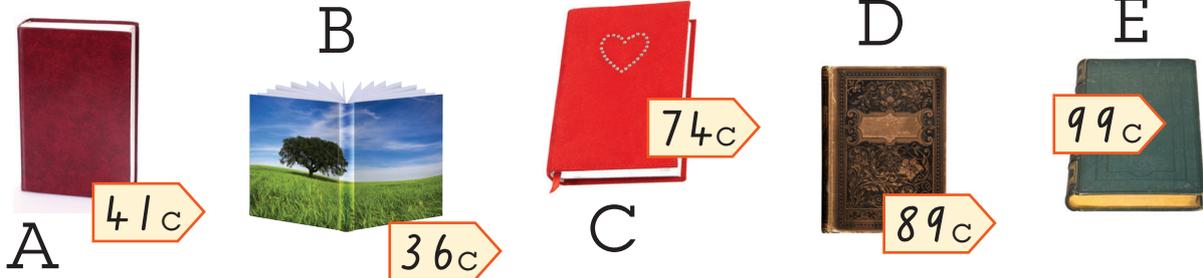
Book A is rounded to **40 ¢** .

Book B is rounded to **35 ¢** .

Book C is rounded to **75 ¢** .

Book D is rounded to **90 ¢** .

Book E is to **$ 1.00** .

Prices ending in 1 and 2 round down to 0.
Prices ending in 3 and 4 round up to 5.
Prices ending in 6 and 7 round down to 5.
Prices ending in 8 and 9 round up to 10.

2 Eva has the following coins in her purse. Choose the coins she could use to pay each rounded price. The first one has been done for you.

Book A $10c + 10c + 10c + 5c + 5c = 40c$

Book B $10c + 10¢ + 10c + 5c = 35¢$
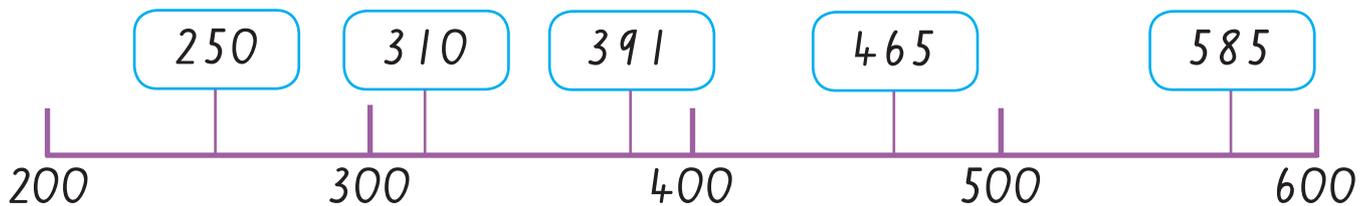
Book C $50c + 10c + 10c + 5c = 75¢$

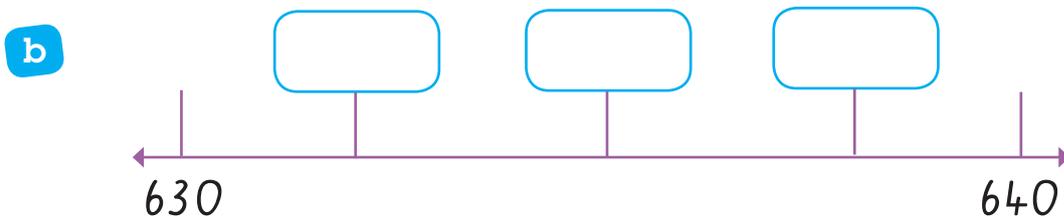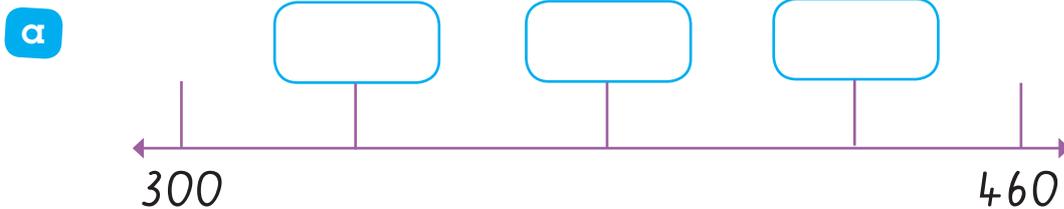Book D $50c + 10c + 10c + 10c + 5c + 5c = 90¢$

Book E $50¢ + 50¢ = 1.00

Ordering numbers

1 Write each number in its correct place along the number line.

585   391   250   465   310

| 250 | 310 | 391 | 465 | 585 |

200   300   400   500   600

2 Write three numbers that are between those shown on each number line.   *Answers will vary*

a

300   460

b

630   640

3 Order each set of numbers from smallest to largest.

a 236, 262, 235, 230: | 230 | 235 | 236 | 262 |

b 470, 357, 417, 474: | 357 | 417 | 470 | 474 |

c 560, 506, 766, 616: | 506 | 560 | 616 | 766 |

MiB 1 Cards 22 & 23

Which number is **halfway** between 400 and 500?

Number and Place Value

Roadside numbers

BONSHAW *104*

TEXAS *125*

YETMAN *167*

BOGGABILLA *229*

GOONDIWINDI *238*

1 Use the word bank to write the distance to each town in words.

Word bank

one two three four five
six seven eight nine ten
eleven twelve thirteen fourteen fifteen
sixteen seventeen eighteen nineteen twenty
thirty forty fifty sixty seventy eighty ninety hundred
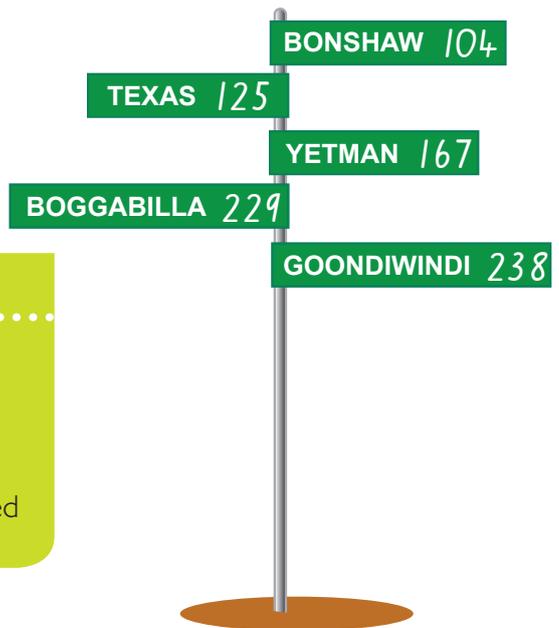
Bonshaw _____ *one hundred and four* _____

Texas _____ *one hundred and twenty five* _____

Yetman _____ *one hundred and sixty seven* _____

Boggabilla _____ *two hundred and twenty nine* _____

Goondiwindi _____ *two hundred and thirty eight* _____

2 Look at the road signs. Write the place value of each digit in the numbers. The first one has been done for you.

1	*1 hundred*	5	*5 hundreds*
6	*6 tens*	3	*3 tens*
4	*4 ones*	0	*0 ones*

BERRI *164*

NELSON *530*

List where you see 3-digit numbers written at school and at home.

MiB 1
Card
25

Number and Place Value   **9**

1 Write the numbers that come one before and one after.

255	**256**	257
403	**404**	405
630	**631**	632

378	**379**	380
609	**610**	611
842	**843**	844

2 Follow the instructions to change the numbers as they move along the conveyor belt. The first one has been done for you.

Add 10	Add 100	Subtract 10	
154	164	264	254
227	237	337	327
619	629	729	719
800	810	910	900

MiB 1
Cards
22 & 23

10 **Number and Place Value**

Number sense

1 Circle the correct statement for each pair of numbers.

a 205   is more than / (is less than)   250

b 132   is more than / (is less than)   231

c 215   is more than / (is less than)   251

d 445   is more than / (is less than)   454

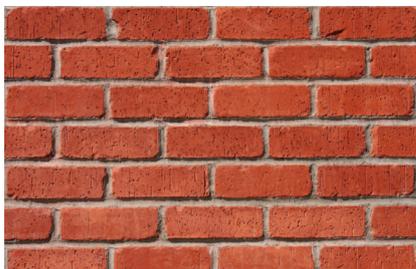**e** 570   (is more than) / is less than   507

2 Am I closer to **500** or **600**?

a 504   [500]   **b** 593   [600]

c 575   [600]   **d** 547   [500]

3 Am I closer to **$1.00** or **$1.50**?

a $1.05   [$1.00]   **b** $1.48   [$1.50]

c $1.35   [$1.50]   **d** $1.20   [$1.00]

> Discuss how you could estimate the number of objects in a large group.

4

a Count the number of bricks in one row. Estimate the number of bricks in the picture.

[28]

b There are about 10 people in the red square. Estimate the number of people in the picture.

[90]

1 Count on to add.

a $37 +$ [dice: 2] $= 39$ b $33 +$ [dice: 2] $= 35$

c $49 +$ [dice: 4] $= 53$ d $52 +$ [dice: 4] $= 56$

e $51 +$ [dice: 3] $= 54$ f $47 +$ [dice: 3] $= 50$

g $67 +$ [dice: 4] $= 71$ h $85 +$ [dice: 5] $= 90$

i $78 +$ [dice: 2] $= 80$ j $20 +$ [dice: 2] $= 22$

k $88 +$ [dice: 3] $= 91$ l $41 +$ [dice: 6] $= 47$

2 Count on to add.

a $23 + 6 = 29$ b $40 + 3 = 43$

c $62 + 5 = 67$ d $84 + 4 = 88$

3 Write the missing number on the dice.

a $20 + 6 = 26$ b $25 + 4 = 29$

c $68 + 4 = 72$ d $76 + 9 = 85$

Count back

1 Count back to subtract.

a $23 - \boxed{2} = \boxed{21}$ b $29 - \boxed{3} = \boxed{26}$
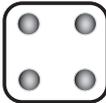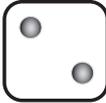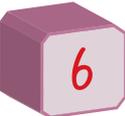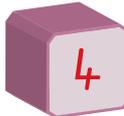
c $29 - \boxed{5} = \boxed{24}$ d $37 - \boxed{6} = \boxed{31}$

e $55 - \boxed{3} = \boxed{52}$ f $44 - \boxed{4} = \boxed{40}$

g $57 - \boxed{4} = \boxed{53}$ h $40 - \boxed{1} = \boxed{39}$

i $31 - \boxed{2} = \boxed{29}$ j $67 - \boxed{5} = \boxed{62}$

k $50 - \boxed{3} = \boxed{47}$ l $50 - \boxed{2} = \boxed{48}$

2 Count back to subtract.

a $19 - \boxed{6} = \boxed{13}$ b $24 - \boxed{4} = \boxed{20}$

c $27 - \boxed{6} = \boxed{21}$ d $33 - \boxed{5} = \boxed{28}$

3 Write the missing number on the dice.

a $20 - \boxed{4} = 16$ b $25 - \boxed{6} = 19$

c $56 - \boxed{6} = 50$ d $60 - \boxed{7} = 53$

Near doubles

1 Write a number sentence for these near doubles.
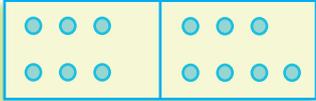
a | 6 + 7 = 13
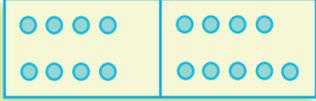
b | 8 + 9 = 17
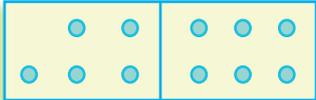
c | 5 + 6 = 11

2 Try these.

a Double 8 and add 1. | 17

b Double 10 and add 1. | 21

c Double 7 and add 1. | 15

d Double 20 and add 1. | 41

3 Use the near doubles strategy to answer these.

a $11 + 10 =$ 21 b $6 + 5 =$ 11

c $4 + 5 =$ 9 d $6 + 7 =$ 13

e $20 + 21 =$ 41 f $9 + 8 =$ 17

4 Doubles are handy! Try these.

a Double 4 and double again. | 16

b Double 5 and double again. | 20

c Double 6. Double again.

Now double again. | 48

Doubles can be used for multiplication too!
○○   2
○○○○ Double 2 equals 4
●●●● Double 4 equals 8
●●●●

MiB 1
Card
41

14 Number and Place Value

Puzzle picture

1 Solve each number sentence and shade the answers on the hundreds chart.

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

Explain how you worked out the answers.

Did you find or use any patterns?

$3 + 10 =$ 13
$15 + 10 =$ 25
$37 - 1 =$ 36
$23 + 1 =$ 24
$14 + 1 =$ 15
$81 + 11 =$ 92
$97 - 10 =$ 87
$24 + 11 =$ 35
$23 + 11 =$ 34

$67 + 10 =$ 77
$27 - 1 =$ 26
$97 - 1 =$ 96
$92 + 1 =$ 93
$62 + 11 =$ 73
$84 - 10 =$ 74
$22 + 11 =$ 33
$37 - 10 =$ 27
$65 + 11 =$ 76

$87 + 10 =$ 97
$38 - 1 =$ 37
$32 + 1 =$ 33
$12 + 11 =$ 23
$85 - 10 =$ 75
$16 + 11 =$ 27
$27 - 10 =$ 17
$72 + 11 =$ 83

Make a ten number

1 Use the hundreds chart to help you solve these.

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

$4 + \boxed{6} = 10$

$17 + \boxed{3} = 20$

$24 + \boxed{6} = 30$

$35 + \boxed{5} = 40$

$41 + \boxed{9} = 50$

$56 + \boxed{4} = 60$

$69 + \boxed{1} = 70$

$80 + \boxed{0} = 80$

$85 + \boxed{5} = 90$

$92 + \boxed{8} = 100$

Lena used a number line to show how she solved 16 + 7. Explain how Lena worked it out.

$+4$ $+3$

16   20   23
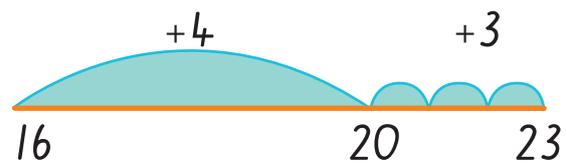
2 Write the answers for these.

a $14 + 7 = \boxed{21}$

You could think: 14 + 6, plus one more.

b $47 + 5 = \boxed{52}$

c $53 + 9 = \boxed{62}$

3 Solve $68 + 7 = \boxed{75}$

Show your thinking on the number line.

$+2$ $+5$

68   70   75
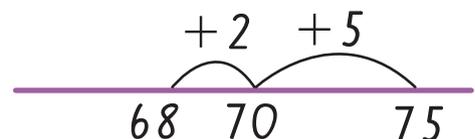
Pick your card

1 Use a number from a yellow card to complete each number sentence.

| 4 | 8 | 9 | 5 |
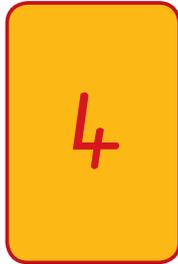
a $20 - \boxed{9} = 11$

b $\boxed{9} - 5 = 4$

c $30 - \boxed{8} = 22$

d $\boxed{8} - 5 = 3$

e $\boxed{9} - \boxed{8} = 1$

f $\boxed{9} - \boxed{4} = 5$

2 Use a number from a green card to complete these.

| 12 | 13 | 15 | 16 |

a $20 - \boxed{15} = 5$

b $20 - \boxed{16} = 4$

c $30 - \boxed{13} = 17$

d $\boxed{16} - 6 = 10$

e $\boxed{12} - 3 = 9$

f $\boxed{13} - \boxed{12} = 1$

1 Remi has shown her thinking on the number lines. Look at her thinking, and write the answers.

$10 + 12 = \boxed{22}$

$+10 + 1 + 1$

0   10   20   30   40

$+ \boxed{10} + \boxed{10} + \boxed{4}$

$10 + 24 = \boxed{34}$

0   10   20   30   40
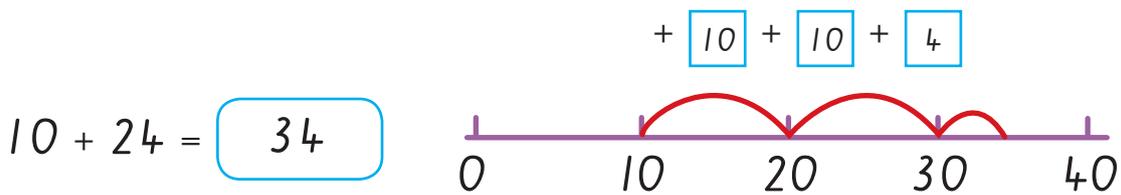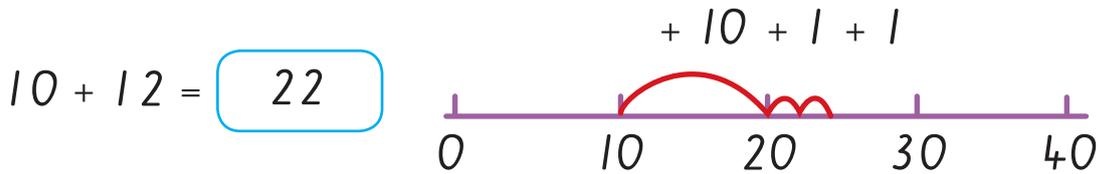
2 Solve these, then show your own thinking on the number line.

$10 + 26 = \boxed{36}$

$+10 \quad +10 \quad +6$

0   10   20   30   40

$+10 \quad +10$

$17 + 20 = \boxed{37}$

0   10   20   30   40
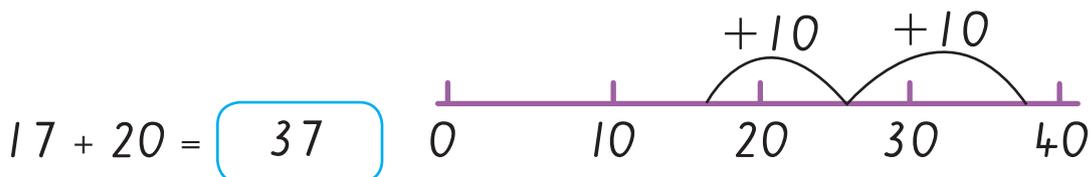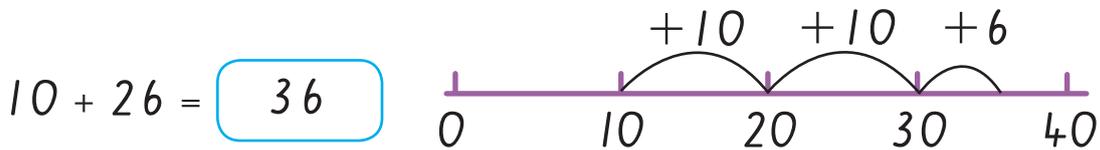
3 Draw your own number line for these.

$12 + 20 = \boxed{32}$

$+10 \quad +10$

0   10   20   30   40

$+10 \quad +5$

$20 + 15 = \boxed{35}$

0   10   20   30   40

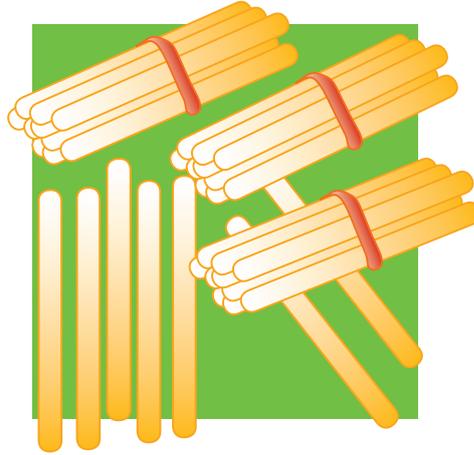**Number and Place Value**

Addition with trading

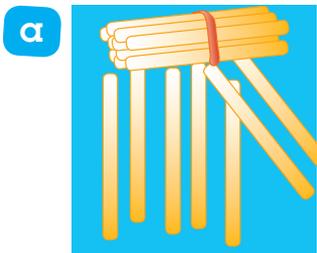**1**
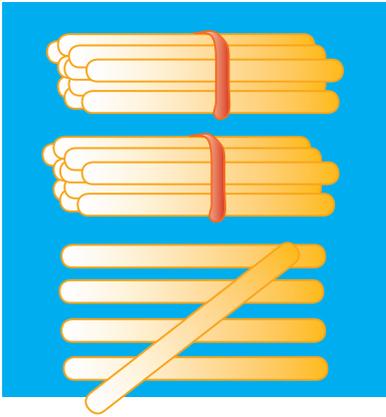
Number of sticks on the blue mat

25

+

Number of sticks on the green mat

37

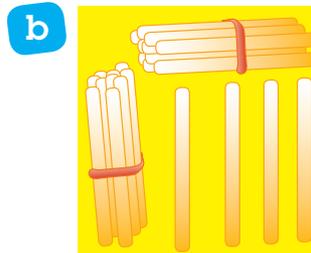There are 62 sticks altogether.

2 Add the bundles to find the total.

a

Blue total

18

+

Green total

26

b

Yellow total

24

+

Orange total

19

Blue + green total = 44   Yellow + orange total = 43

3 Work out these. Use pop sticks to help you.

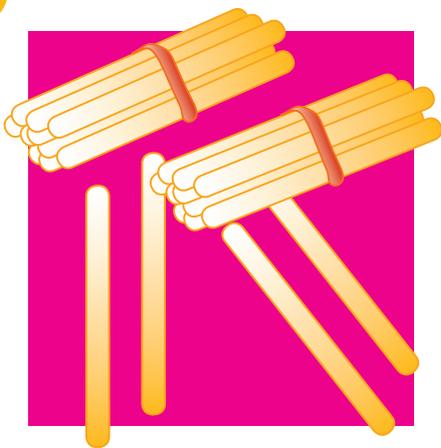**a** 23 + 36 = 59   **b** 36 + 17 = 53

c 29 + 23 = 52   **d** 23 + 18 = 41

e 25 + 37 = 62   **f** 44 + 29 = 73

Number and Place Value   **19**

1

How many sticks altogether? $\boxed{24}$

Take 7 sticks away.

$\boxed{24} - \boxed{7} = \boxed{17}$

2 Write a number sentence and solve each of these.
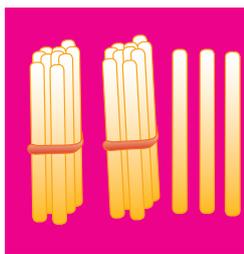
Take away 8.

$\boxed{23} - \boxed{8} = \boxed{15}$
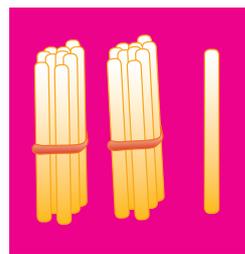
Take away 5.

$\boxed{21} - \boxed{5} = \boxed{16}$
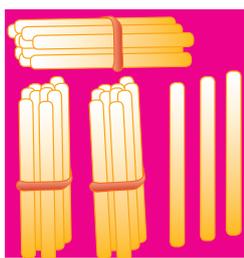
Take away 7.

$\boxed{33} - \boxed{7} = \boxed{26}$
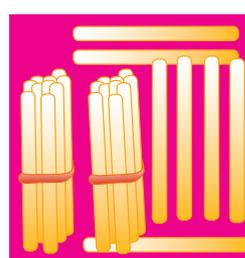
Take away 9.

$\boxed{27} - \boxed{9} = \boxed{18}$

3 Work out these. You can use pop sticks to help you.

$35 - 7 = \boxed{28}$

$26 - 9 = \boxed{17}$

$34 - 8 = \boxed{26}$

$32 - 7 = \boxed{25}$

20 **Number and Place Value**

Money match-up

1 Match each of the collections of coins to an object of the same value.

$2.65
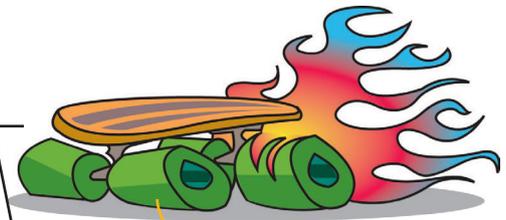
$2.05

$2.80

$4.35

How many different combinations of coins can be used to make $1?

1
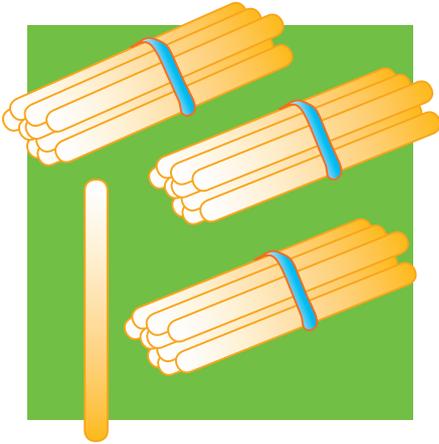
How many sticks altogether? $\boxed{31}$

Take 14 sticks away.

$\boxed{31} - \boxed{14} = \boxed{17}$

2 Write a number sentence and solve each of these.
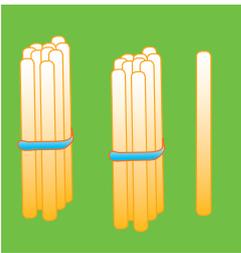
Take away 10.

$\boxed{21} - \boxed{10} = \boxed{11}$
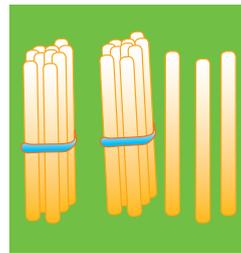
Take away 14.

$\boxed{23} - \boxed{14} = \boxed{9}$
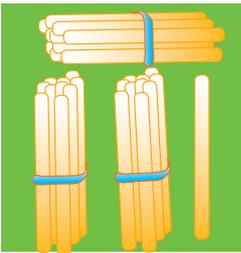
Take away 23.

$\boxed{31} - \boxed{23} = \boxed{8}$
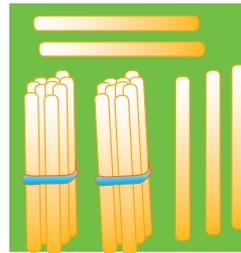
Take away 19.

$\boxed{25} - \boxed{19} = \boxed{6}$

3 Work out these. You could use pop sticks to help you.

$39 - 12 = \boxed{27}$

$46 - 19 = \boxed{27}$

$55 - 18 = \boxed{37}$

$48 - 29 = \boxed{19}$

MiB 1
Card
52

22 **Number and Place Value**

Making cents

A: 42c

B: 38c

C: 65c

D: 23c

E: 96c

F: 19c
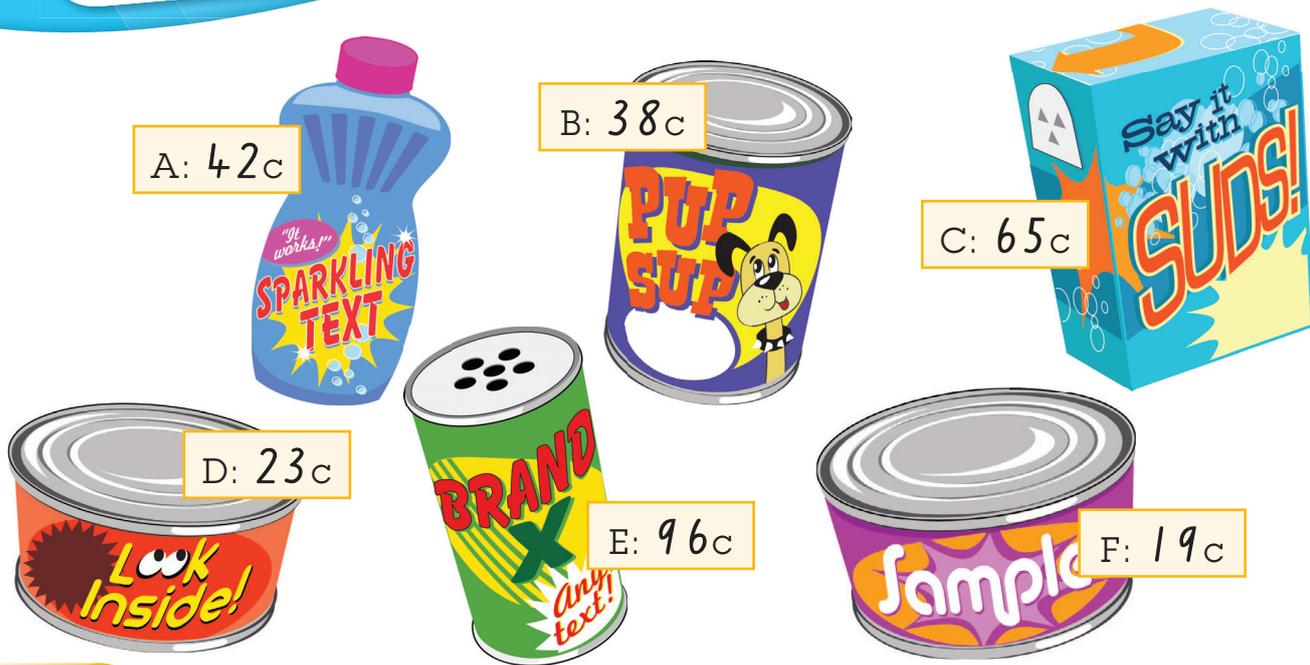
1 Write the number sentence and the total cost for the following products.

a A + D [42] cents + [23] cents = [65] cents

b C + D [65] cents + [23] cents = [88] cents

c A + B [42] cents + [38] cents = [80] cents

d F + D [19] cents + [23] cents = [42] cents

**2** How much change would you get from $1 if you bought

a E? [4¢]   **b** F? [81¢]

c A? [58¢]   **d** B? [62¢]

e C? [35¢]   **f** D? [77¢]

3 Write the letters of the two products that total

a 61 cents. [B] and [D]

b 84 cents. [C] and [F]

Explain your thinking!

1 Complete these addition and subtraction facts. Tick those that you can solve quickly in your head.

○ 20 + 21 = **41**	○ 13 + 7 = **20**	○ 79 + 11 = **90**
○ 20 + 13 = **33**	○ 9 + 16 = **25**	○ 27 + 16 = **43**
○ 29 + 6 = **35**	○ 18 + 36 = **54**	○ 102 + 1 = **103**

○ 12 – 9 = **3**	○ 20 – 17 = **3**	○ 12 – 6 = **6**
○ 27 – 9 = **18**	○ 78 – 0 = **78**	○ 96 – 1 = **95**
○ 76 – 6 = **70**	○ 24 – 17 = **7**	○ 54 – 54 = **0**

Explain how you solved them to a friend.

2 Choose one number sentence from each above. Write and draw how you solved it quickly in your head.

Answers will vary.

Change and cost

C: $4.00

A: $3.50

B: $2.50

D: $4.80

E: $3.90

F: $4.20

1 Lucy has $5 to spend on a gift. How much change would she get if she bought each item?

a $1.50   b $2.50   c $1.00

d $0.20   e $1.10   f $0.80

2 Lucy decides to combine her money with Jeremy's money to buy two gifts. How much will they need to buy these gifts?

	Gifts	Amount of money
a		$6.50
b		$6.00
c		$7.90
d		$9.00

Blue bottle rows

An array is formed by arranging a set of objects in equal rows and columns. Here is an array for number 15.

○○○○○
○○○○○   3 rows of 5 equals 15.
○○○○○

1 Draw these arrays and complete their number sentence.

a 3 rows of 4 equals [12]   **b** 2 rows of 5 equals [10]

○○○○
○○○○
○○○○

○○○○○
○○○○○
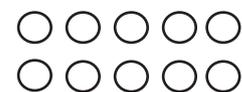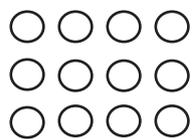
2 These bottles have been placed in a cupboard in equal rows.

a How many rows? [2]

b How many bottles in each row? [12]

c How many bottles altogether? [24]

d How many bottles in the cupboard if one row was taken away? [12]

e How many bottles in the cupboard if there were 5 bottles on each shelf? [10]

MiB 1
Card
56

Which has more, 5 rows of 4 bottles or 6 rows of 3 bottles?

26 **Number and Place Value**

Arrays

1 Cross the picture that is **not** an array for 12.
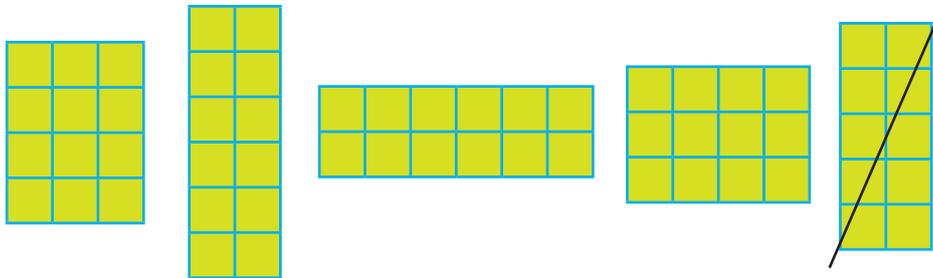
2 Use the arrays for 12 to answer these questions.

a How many 3s in 12? $\boxed{4}$

b How many 2s in 12? $\boxed{6}$

c How many 4s in 12? $\boxed{3}$

d How many 6s in 12? $\boxed{2}$

3 Draw a picture to solve each sharing problem.

a There are 14 toys. How many in each share if they are shared equally between 2 puppies? $\boxed{7}$
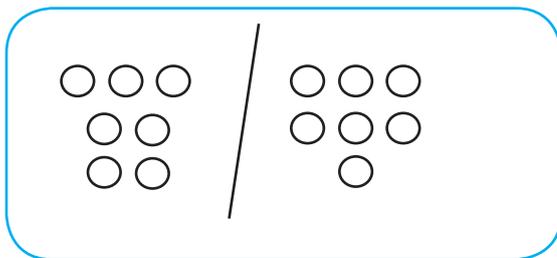
b There are 9 bones. How many in each share if they are shared equally among 3 dogs? $\boxed{3}$
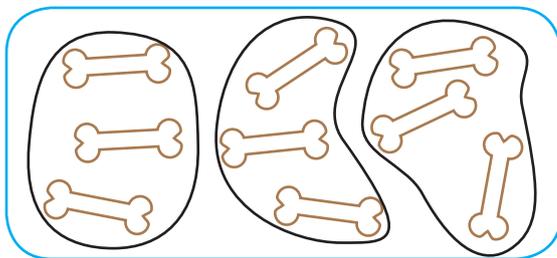
c There are 20 computer games packed equally into 4 boxes. How many in each box? $\boxed{5}$
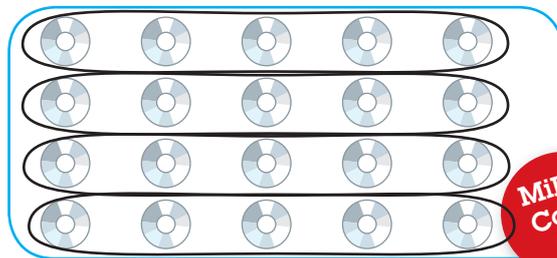
MiB 1
Card
58
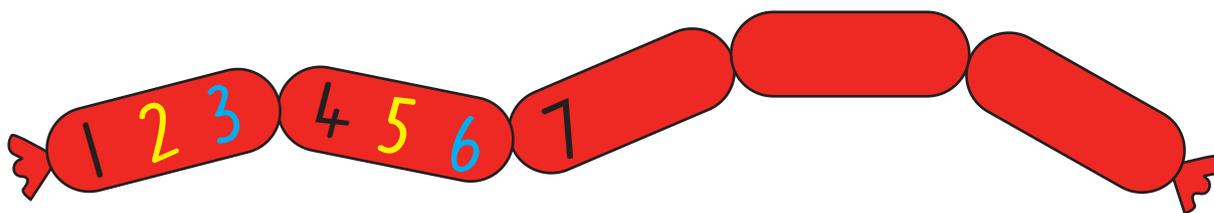
1 Look at the number sausages.

a Continue the number pattern for the blue numbers.

3	6	9	12	15	18	21	24	27	30

Describe the blue number pattern. _____ *multiples of 3* _____

_____

b Continue the number pattern for the black numbers.

1	4	7	10	13	16	19	22	25	28

Describe the black number pattern. _____ *add 3 to get the* _____

_____ *next number in the pattern* _____

2 Complete these number sausages.

a * 4 * 6 * 8 * 10 * 12 * 14 * 16

b *** 4 *** 8 *** 12 *** 16 *** 20 *** 24 *** 28

c ** 12 ** 15 ** 18 ** 21 ** 24 ** 27 ** 30

Number and Place Value
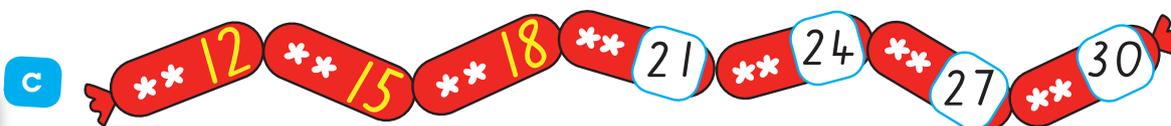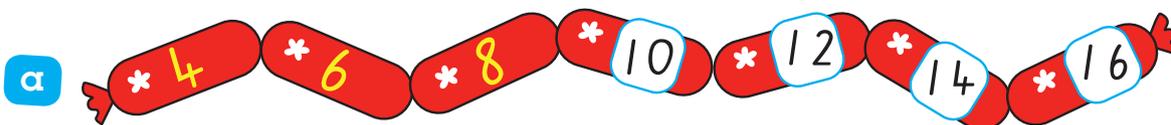
1 Here are 24 two-dollar coins.

How many **coins** in each share if the coins are shared equally among:

a 2 people? | 12

b 3 people? | 8

c 4 people? | 6

d 6 people? | 4

e 8 people? | 3

f 12 people? | 2

2 How much **money** in each share if the money is shared equally among:

a 2 people? | $24

b 3 people? | $16

c 4 people? | $12

d 6 people? | $8

e 8 people? | $6

f 12 people? | $4

3 $12 is given to charity. How much money is left? | $36

MiB 1
Card
68

To market!

1 Circle the money needed to pay the exact amount for each item.

a $1.45

b $5.70

c $2.65

d $3.50

2 How much does it cost for:

a 2 lobster pots? $1.00

b 2 starfish? $2.00

c 4 starfish? $4.00

d 6 lobster pots? $3.00

e 1 starfish? $1.00

Lobster Pots 50c each | Starfish 2 for $2.00

MiB 1 Cards 10 & 55

3 How many lobster pots can you buy for $3.50? 7

Number and Place Value

The toy warehouse

1 These boxes are being shipped from a toy warehouse.

contains 4 dolls houses

contains 2 scooters

contains 5 jigsaws

contains 10 golf balls

a How many scooters in:

4 boxes? **8**   5 boxes? **10**   6 boxes? **12**

b How many jigsaws in:

4 boxes? **20**   5 boxes? **25**   6 boxes? **30**

c How many golf balls in:

4 boxes? **40**   5 boxes? **50**   6 boxes? **60**

Discuss with a friend how you worked out the totals.

2 Fred's Toy Shed has ordered some toys. Write the number of boxes to be sent from the warehouse.

a **4** boxes of doll houses

b **7** boxes of scooters

c **3** boxes of jigsaws

d **3** boxes of golf balls

FRED'S TOY SHED

order for:

16 doll houses
14 scooters
15 jigsaws
30 golf balls

The multiplication symbol

1 Complete the number sentences for each array. The first one is done for you.

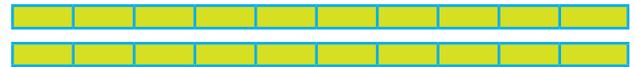**a** $4 + 4 + 4 = 12$

$3 \times 4 = 12$
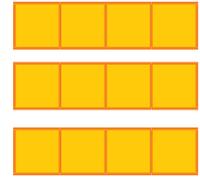
b $3 + 3 + 3 + 3 = 12$

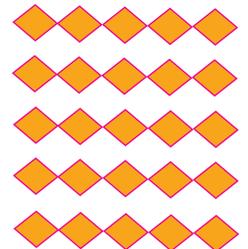$4 \times 3 = 12$

c $10 + 10 = 20$

$2 \times 10 = 20$

d $2 + 2 + 2 + 2 + 2 = 10$

$10 \times 2 = 20$

e $5 + 5 + 5 + 5 + 5 = 25$

$5 \times 5 = 25$

f $8 + 8 + 8 + 8 = 32$

$4 \times 8 = 32$

32 **Number and Place Value**
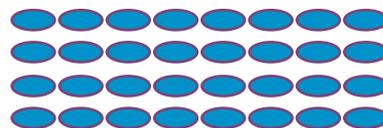
Addition and multiplication

1 Complete the table. The first one is done for you.

Picture	+ Addition sentence	× Multiplication sentence
●●●● ●●●●	$4 + 4 = 8$	$2 \times 4 = \boxed{8}$
△△△△△ △△△△△	$5 + 5 = \boxed{10}$	$2 \times 5 = 10$
▫▫▫ ▫▫▫ ▫▫▫ ▫▫▫	$3 + 3 + 3 + 3 = 12$	$4 \times 3 = 12$
○○○○○○○ ○○○○○○○ ○○○○○○○	$7 + 7 + 7 = \boxed{21}$	$3 \times 7 = 2$
▫▫▫▫▫▫▫▫ ▫▫▫▫▫▫▫▫	$8 + 8 = 16$	$2 \times 8 = \boxed{16}$
○○ ○○ ○○ ○○	$2 + 2 + 2 + 2 = \boxed{8}$	$4 \times 2 = 8$
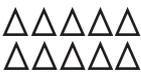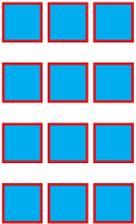
2 Which has more: 2×7 or $\boxed{5 \times 3}$?

Draw a picture to find out.

○○
○○
○○
○○
○○
○○
○○   ○○○○○
      ○○○○○
      ○○○○○   ✓

Number and Place Value   **33**
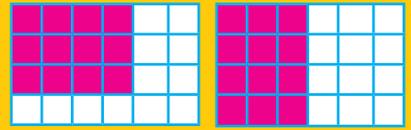
Turnarounds

1 Colour the grids to represent each array. Colour its turnaround array as well.

	Array	Turnaround Array
a $5 \times 4 = \boxed{20}$		
b $3 \times 5 = \boxed{15}$		
c $4 \times 4 = \boxed{16}$		

2 Write the turnaround fact for these.

Fact	Turnaround	Fact	Turnaround
a $7 \times 2 = \boxed{14}$	$2 \times 7 = \boxed{14}$	**b** $1 \times 10 = \boxed{10}$	$\boxed{10 \times 1 = 10}$
c $6 \times 5 = \boxed{30}$	$\boxed{5 \times 6 = 30}$	**d** $2 \times 8 = \boxed{14}$	$\boxed{8 \times 2 = 16}$

MiB 1 Cards 57

Explain how 5 × 3 is the same as 3 × 5.

34 Number and Place Value
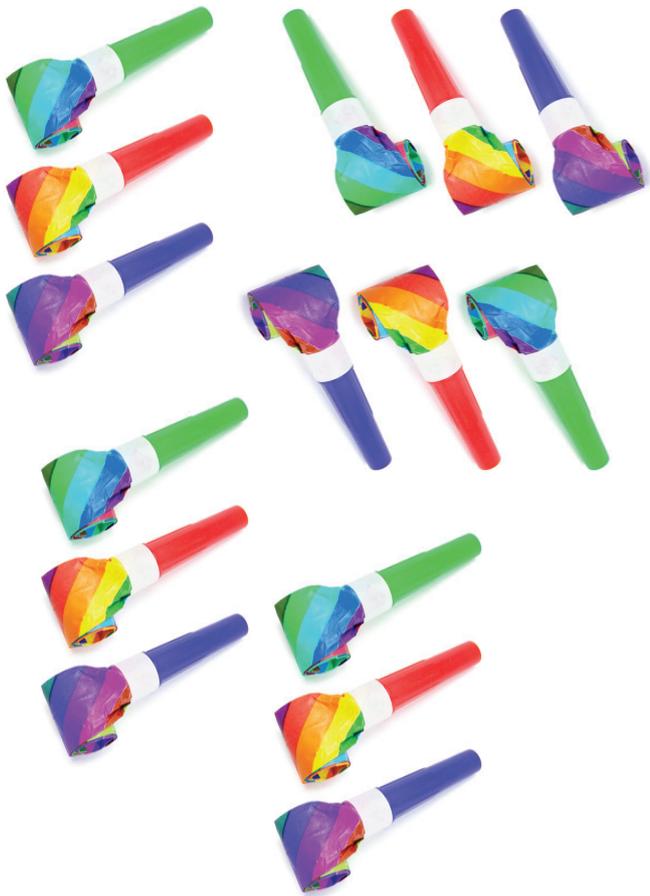
1 Divide each set of objects into groups of *3*.

How many party blowers in each group? | 3

How many groups of party blowers? | 5

How many spinners in each group? | 3

How many groups of spinners? | 4

2 Divide each set of objects into *3* equal groups.

How many party blowers in each group? | 5

How many groups of party blowers? | 3

How many spinners in each group? | 4

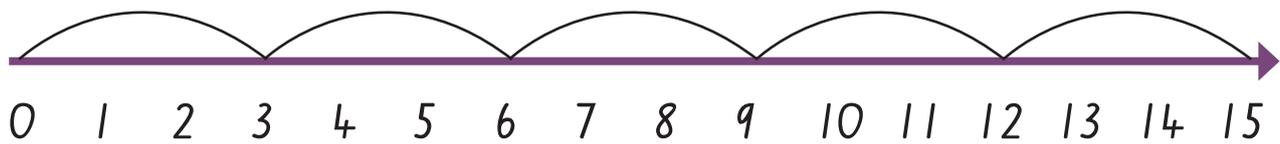How many groups of spinners? | 3

Number and Place Value   **35**

Division on the number line

1 Use the number line to solve the problem.

Sergio had *15* fishing hooks that he sold in packs of *3*.
He has no hooks left. How many packs did he sell?

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Sergio sold ⎡ 5 ⎤ packets of hooks.

2 Press ⎡ 18 ⎤ ⎡ – ⎤ ⎡ – ⎤ ⎡ 2 ⎤ on a calculator.

a Keep pressing ⎡ = ⎤ to make the calculator count back from *18* by twos. Write the numbers that are shown on the screen.

| 18 | 16 | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 0 |

b How many *2*s in *18*? ⎡ 9 ⎤

Hint: Count the number of times you press the equals button to get to zero.

3 Use the calculator to count backwards to find how many:

a *3*s in *39*. ⎡ 13 ⎤

b *6*s in *72*. ⎡ 12 ⎤

c *5*s in *105*. ⎡ 21 ⎤

d *3*s in *60*. ⎡ 20 ⎤

e *4*s in *56*. ⎡ 14 ⎤

f *10*s in *130*. ⎡ 13 ⎤

ELECTRONIC CALCULATOR

346.

AUTO POWER OFF

36 Number and Place Value

What's the problem?

1 Draw a line to match each problem to a number fact. Solve each problem.

a Share 8 balls equally between 2 dogs.

b There are 6 shirts, each with 2 buttons. How many buttons altogether?

c Grandpa knitted 12 scarves. He used 3 balls of wool for each scarf. How many balls of wool did he use?

d There are 6 children to be divided into 2 equal teams. How many in each team?

e Grandma shared $12 equally amongst her 3 grandchildren. How much did each child receive?

f Nana grew 8 lettuces and 8 spinach plants. How many plants did she grow?

$6 \times 2 =$ [12]

$8 \div 2 =$ [4]

$12 \div 3 =$ [4]

$2 \times 8 =$ [16]

$12 \times 3 =$ [36]

$6 \div 2 =$ [3]