

1

a) Write in the box below each picture the number of shapes it contains.

b) Colour blue the boxes which have **even** numbers.
Colour red the boxes which have **odd** numbers.

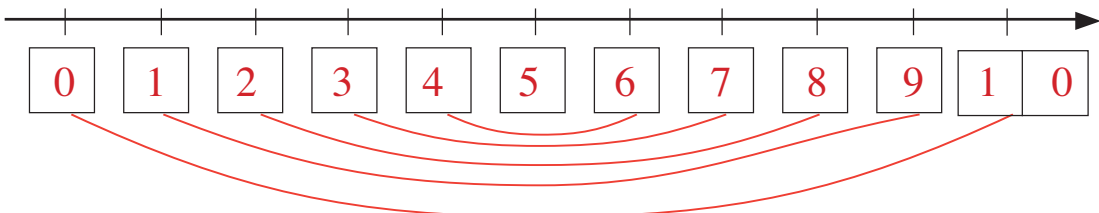
c) Fill in the missing numbers. Each sum must equal 10.

E.g:

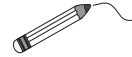
$7 + 3 = 10$ $8 + 2 = 10$ $4 + 6 = 10$
 $9 + 1 = 10$ $7 + 3 = 10$

2

a) Write the correct numbers from 0 to 10 below the number line.



b) Join up the **pairs** of numbers which together make 10.



3

Fill in the missing numbers.

a) $0 \xrightarrow{+2} 2 \xrightarrow{+2} 4 \xrightarrow{+2} 6 \xrightarrow{+2} 8 \xrightarrow{+2} 10$

b) $10 \xrightarrow{-3} 7 \xrightarrow{-3} 4 \xrightarrow{-3} 1$

c) $2 \xrightarrow{+3} 5 \xrightarrow{-1} 4 \xrightarrow{+3} 7 \xrightarrow{-1} 6 \xrightarrow{+3} 9 \xrightarrow{-1} 8$

1

There are 9 apples on the plate. Four are green and the rest are red.

- a) Colour in the apples.
- b) Fill in the missing numbers.



$$4 + 5 = 9$$

$$9 - 5 = 4$$

or $9 - 4 = 5$

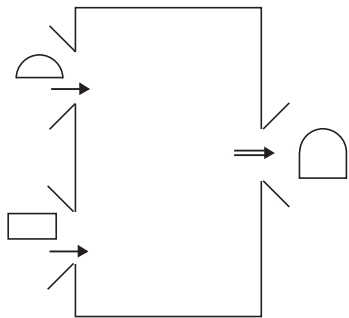
2

Fill in the missing numbers.

$2 + 7 = 9$	$9 - 4 = 5$	$3 + 6 = 9$	$10 - 10 = 0$
$3 + 5 = 8$	$1 + 8 = 9$	$8 - 5 = 3$	$10 + 0 = 10$
$8 - 4 = 4$	$10 - 3 = 7$	$2 - 0 = 2$	$5 + 1 = 6$
$9 - 3 = 6$	$8 + 2 = 10$	$5 + 5 = 10$	$5 - 4 = 1$

3

What is the machine doing? Complete the table.



◐	2	3	4	7	0	5	2
◻	1	5	2	3	9	5	2
◑	3	8	6	10	9	10	4

$$\text{◐} + \text{◻} = \text{◑}$$

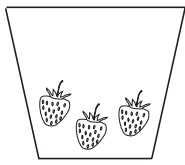
4

Underline the **incorrect** answers. Write the **correct** answers in the boxes.

$2 + 8 = 10$	<input type="text"/>	$9 - 4 = 6$	<input type="text"/>	$10 - 4 = 6$	<input type="text"/>
$3 + 5 = 9$	<input type="text"/>	$3 + 6 = 9$	<input type="text"/>	$5 - 3 = 2$	<input type="text"/>
$8 - 4 = 4$	<input type="text"/>	$7 - 5 = 2$	<input type="text"/>	$9 - 6 = 5$	<input type="text"/>

1

What has happened to the tub of 10 strawberries? Complete the equations.

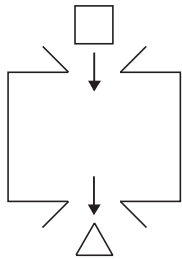


$$10 - 3 - 4 = \boxed{3}$$

$$10 - 4 - 3 = \boxed{3}$$

2

What is the machine doing? Complete the table and write down the rule.

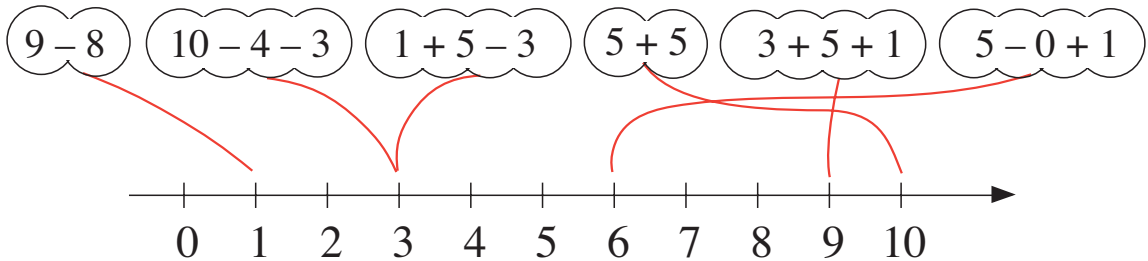
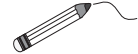


□	4	5	8	3	9	6	7	9	10
△	1	2	5	0	6	3	4	6	7

$$\triangle = \boxed{\square - 3} \quad \square = \boxed{\triangle + 3}$$

3

Join each sum to the correct point on the number line.



4

Are the answers correct? If the answer is correct, write ✓ in the box. If the answer is incorrect, cross it out and write the correct answer in the box.

$4 + 3 = \cancel{6}$	$\boxed{7}$	$5 + 5 = 10$	$\boxed{\checkmark}$	$10 - 4 = \cancel{7}$	$\boxed{6}$
$5 + 4 = 9$	$\boxed{\checkmark}$	$5 + 6 = \cancel{10}$	$\boxed{11}$	$9 - 7 = 2$	$\boxed{\checkmark}$
$6 + 2 = \cancel{9}$	$\boxed{8}$	$2 + 8 = 10$	$\boxed{\checkmark}$	$10 - 3 = 7$	$\boxed{\checkmark}$
$4 + 1 = 5$	$\boxed{\checkmark}$	$1 + 9 = 10$	$\boxed{\checkmark}$	$10 - 7 = \cancel{2}$	$\boxed{3}$

1

Mark with a dot the following numbers on the number lines. (0 to 10)

(a) Even numbers greater than 3.



(b) The next nearest even numbers to 7.



(c) The next nearest odd numbers to 7.



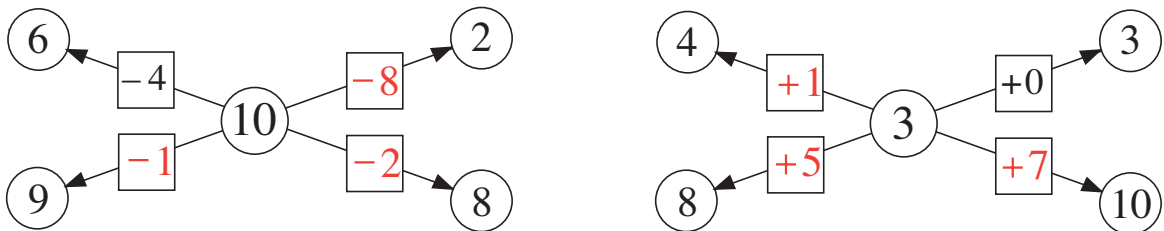
2

Fill in the missing numbers.

a)	$2 + 8 =$	$\boxed{10}$	b)	$9 - 5 =$	$\boxed{4}$	c)	$10 -$	$\boxed{6} = 4$
	$3 + 6 =$	$\boxed{9}$		$\boxed{7} =$	$10 - 3$		$\boxed{10} - 7 = 3$	
	$9 - 8 =$	$\boxed{1}$		$\boxed{9} =$	$7 + 2$		$\boxed{8} - 2 = 6$	
	$10 - 7 =$	$\boxed{3}$		$6 - 1 =$	$\boxed{5}$		$10 - \boxed{9} = 1$	
	$1 + 4 =$	$\boxed{5}$		$9 + 0 =$	$\boxed{9}$		$9 - \boxed{7} = 2$	

3

Fill in the missing numbers.



4

Complete the table. Write the rule in different ways.

♥	2	5	3	1	4	6	1	4	0	-1	1	6
✽	6	9	7	5	8	10	5	8	4	3	5	10

$\text{✽} = \text{♥} + 4 \dots$
 $\text{♥} = \text{✽} - 4 \dots$
 $\text{✽} - \text{♥} = 4 \dots$

1

Fill in the missing numbers.

a)

8	
4	4
7	1
5	3
2	6

b)

9	
3	6
6	3
1	8
4	5

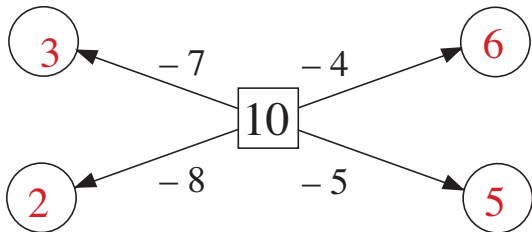
c)

10	
2	8
5	5
9	1
6	4

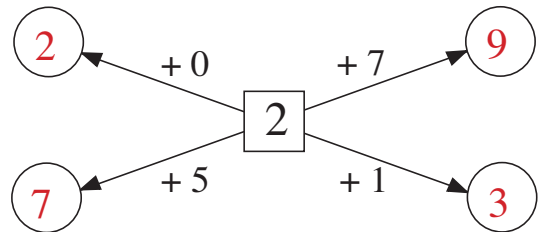
2

Fill in the missing numbers.

a)



b)



3

Fill in the missing numbers.

a) $\boxed{3} + 5 = 8$

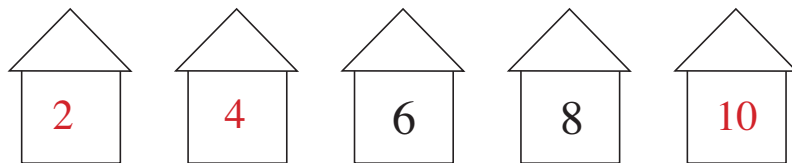
c) $2 + \boxed{8} = 10$

b) $\boxed{5} - 1 = 4$

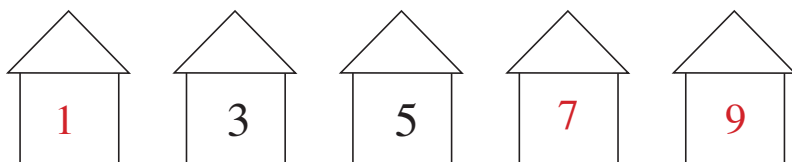
d) $7 - \boxed{6} = 1$

4

Fill in the missing numbers.

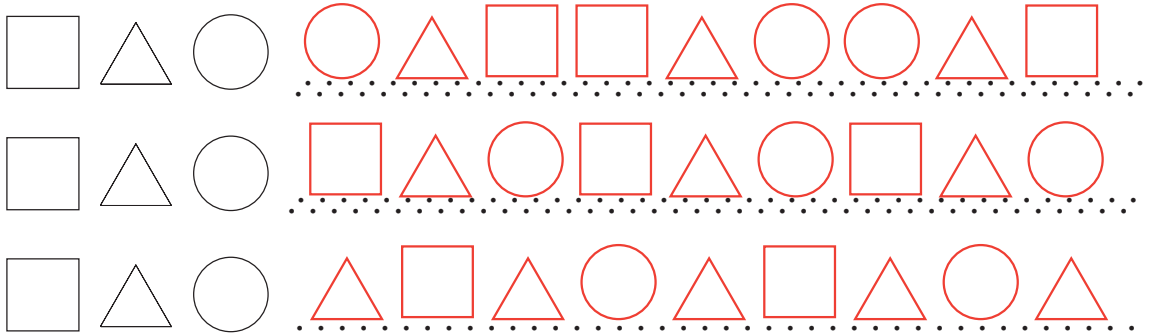


Hill Road



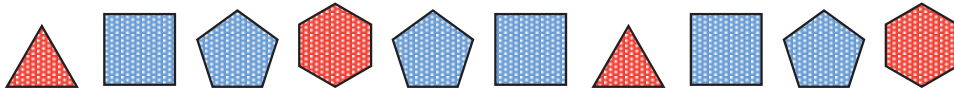
1

Make different sequences, starting with these 3 elements.



2

(a) Colour the first shape **red**, the second and the third shapes **blue**, then the fourth **red** and the next two shapes **blue**, and so on.



(b) $1 + 2 + 1 + 2 + 1 + 2 + 1 =$

1	0
---	---

(c) The number of red shapes is:

4

The number of blue shapes is:

6

The number of blue squares is:

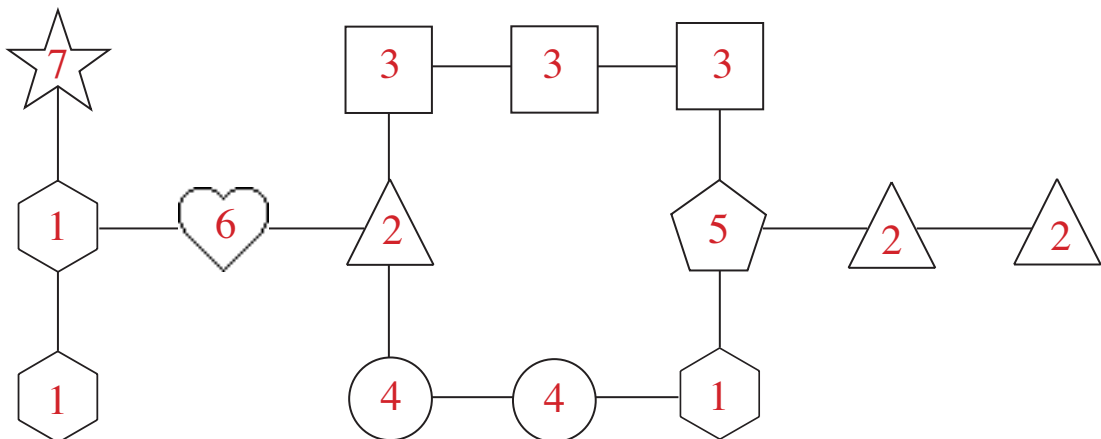
3

The number of red squares is:

0

3

Divide the number 9 into three parts. **Do not use 0.**
The same shape stands for the same number.



1

Write additions about the number of sides of the shapes.

(a)   \longrightarrow $\boxed{3} + \boxed{4} = \boxed{7}$


(b)    \longrightarrow $\boxed{3} + \boxed{3} + \boxed{4} = \boxed{10}$

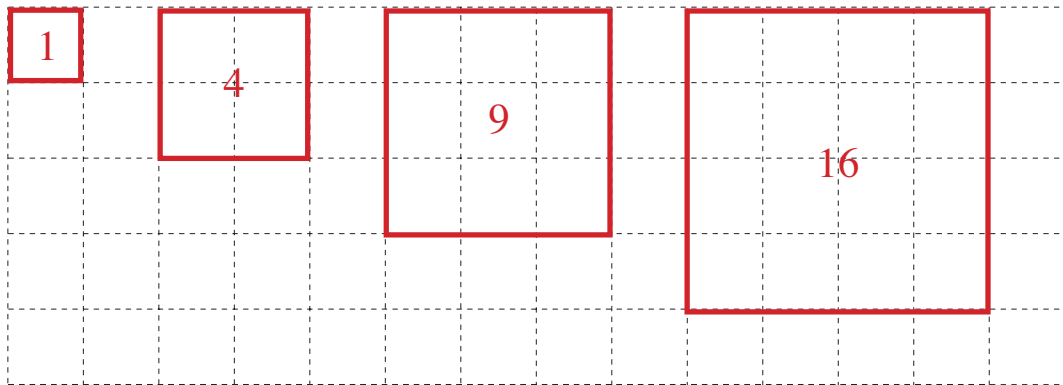
(c)   \longrightarrow $\boxed{5} + \boxed{4} = \boxed{9}$

(d)   \longrightarrow $\boxed{3} + \boxed{6} = \boxed{9}$

2

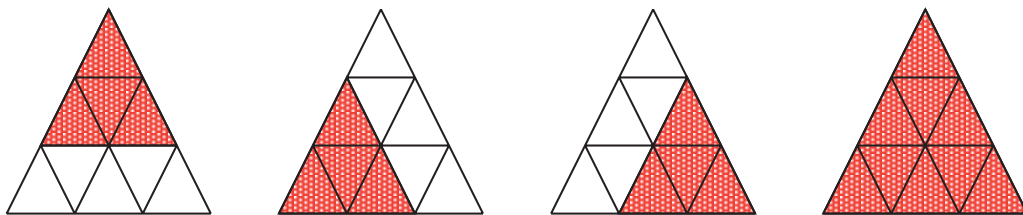
Draw squares of different sizes on the grid below.

Write in the middle of each square the number of unit  s you used.



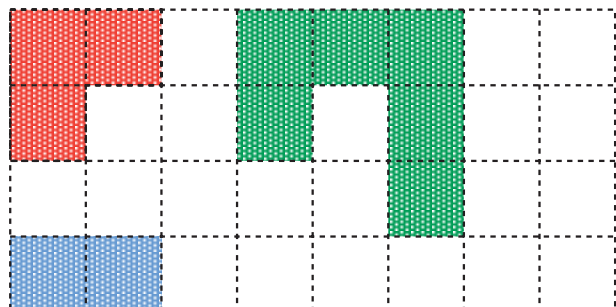
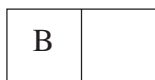
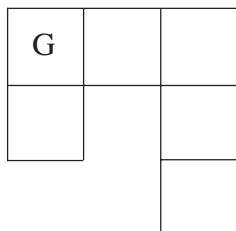
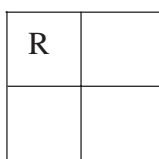
3

Show, by colouring the unit  s, different ways of making larger triangles.



4

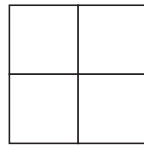
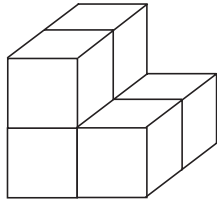
Colour in these shapes on the grid.



1

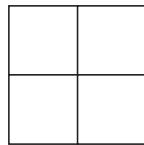
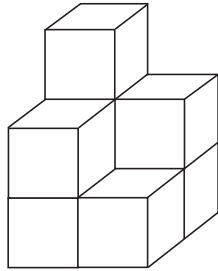
These shapes have been built from unit cubes. How is each shape made?
How many cubes does it use?

a)



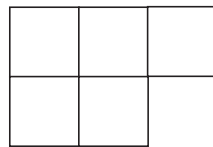
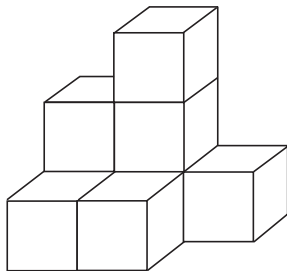
It uses **6** cubes.

b)



It uses **8** cubes.

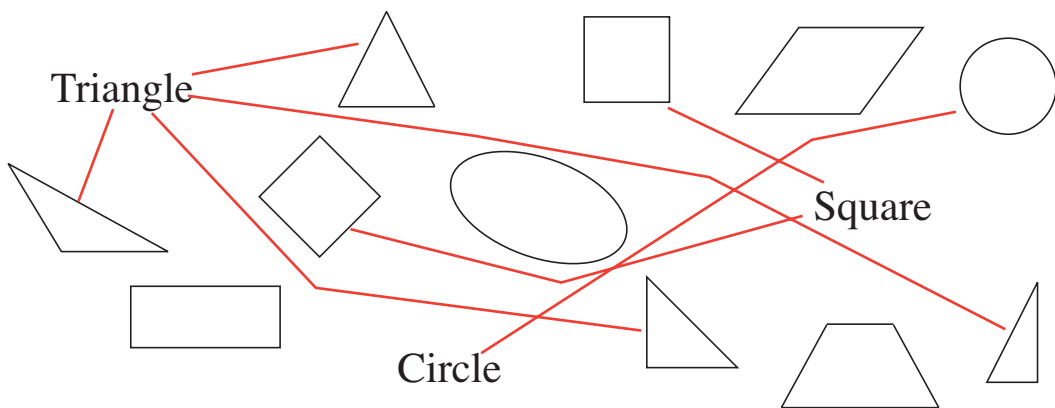
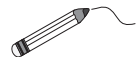
c)



It uses **8** cubes.

2

Join up the names to the correct shapes.

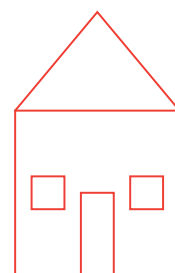


3

Draw a house from a square and a triangle.

Draw windows shaped like squares.

Draw a door shaped like a rectangle.



1

Look at the calendar.

2018

	<i>January</i>					<i>February</i>				<i>March</i>				
Mon	1	8	15	22	29	5	12	19	26	5	12	19	26	
Tue	2	9	16	23	30	6	13	20	27	6	13	20	27	
Wed	3	10	17	24	31	7	14	21	28	7	14	21	28	
Thu	4	11	18	25		1	8	15	22	1	8	15	22	
Fri	5	12	19	26		2	9	16	23	2	9	16	23	
Sat	6	13	20	27		3	10	17	24	3	10	17	24	
Sun	7	14	21	28		4	11	18	25	4	11	18	25	
		<i>April</i>					<i>May</i>				<i>June</i>			
Mon	2	9	16	23	30	7	14	21	28	4	11	18	25	
Tue	3	10	17	24		1	8	15	22	5	12	19	26	
Wed	4	11	18	25		2	9	16	23	6	13	20	27	
Thu	5	12	19	26		3	10	17	24	7	14	21	28	
Fri	6	13	20	27		4	11	18	25	1	8	15	22	
Sat	7	14	21	28		5	12	19	26	2	9	16	23	
Sun	1	8	15	22	29	6	13	20	27	3	10	17	24	
		<i>July</i>					<i>August</i>				<i>September</i>			
Mon	2	9	16	23	30	6	13	20	27	3	10	17	24	
Tue	3	10	17	24	31	7	14	21	28	4	11	18	25	
Wed	4	11	18	25		1	8	15	22	5	12	19	26	
Thu	5	12	19	26		2	9	16	23	6	13	20	27	
Fri	6	13	20	27		3	10	17	24	7	14	21	28	
Sat	7	14	21	28		4	11	18	25	1	8	15	22	
Sun	1	8	15	22	29	5	12	19	26	2	9	16	23	
		<i>October</i>					<i>November</i>				<i>December</i>			
Mon	1	8	15	22	29	5	12	19	26	3	10	17	24	
Tue	2	9	16	23	30	6	13	20	27	4	11	18	25	
Wed	3	10	17	24	31	7	14	21	28	5	12	19	26	
Thu	4	11	18	25		1	8	15	22	6	13	20	27	
Fri	5	12	19	26		2	9	16	23	7	14	21	28	
Sat	6	13	20	27		3	10	17	24	1	8	15	22	
Sun	7	14	21	28		4	11	18	25	2	9	16	23	

a) What **date** is circled?

Day	Month	Year
17	May	2018

What **day** is circled?

Thursday

b) What **date** is your next birthday?

Day	Month	Year

How old will you be?

--

1

- a) How many days are there in February? 2 8 29 in a leap year
- b) How many months start with the letter:
- J 3 M 2 A 2 O 1

2

- a) In which month did this term start?
- b) In which month were you born?
- c) In which month is Christmas? December
- d) Which is your favourite month?

3

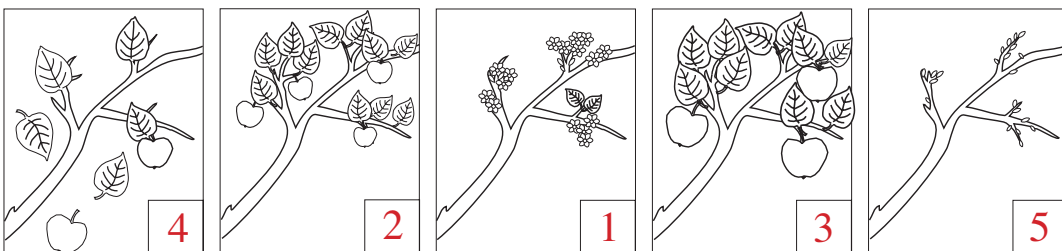
- a) Today is and yesterday was
- b) The day before yesterday was
- c) Tomorrow will be
- d) The day after tomorrow will be

4

- a) How many months are there from the beginning of September until the end of December? 4
- b) How many months are there from the 1st January to the 1st June? 5

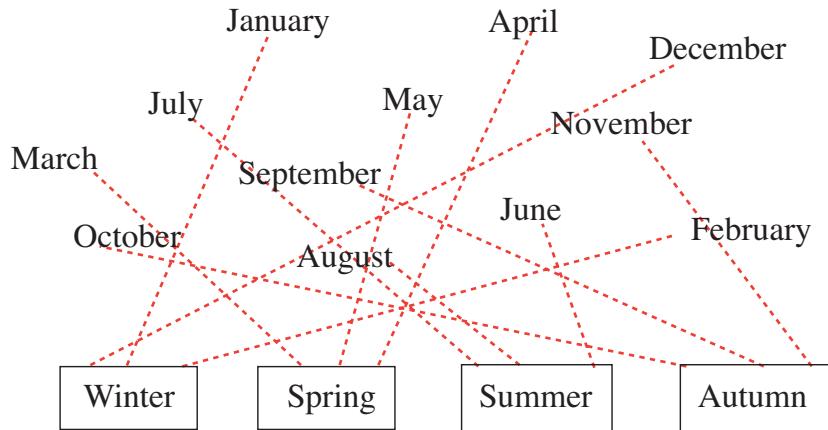
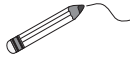
5

Put the pictures in the correct order. Write their numbers in the boxes.



1

Join up the months to the matching seasons.



2

Find each date on the calendar on page 73 and write in the day of the week for:

a) 21 March 2018

Wednesday

b) 21 June 2018

Thursday

c) 21 September 2018

Friday

d) 21 December 2018

Friday

3

a) How many months are there in one year?

1 2

b) Which is the:

4th month

April

7th month

July

10th month?

October

c) Which month is:

February

2nd

July

7th

November?

11th

4

Tom's birthday is on the 7th June. Jane's birthday is on the 10th June. Jim's birthday is on the 2nd of June.

How many days are there between:

a) Jim's and Tom's birthdays

4

b) Tom's and Jane's birthdays

2

c) Jim's and Jane's birthdays?

7

1

Look at the calendar on page 73. Write in the numbers and names of:

a) the longest months

1	January
3	March
5	May
7	July
8	August
10	October
12	December

each with

3	1
---	---

days

b) the shortest month

2	February
---	----------

which has

2	8
---	---

days

c) the remaining months

4	April
6	June
9	September
11	November

each with

3	0
---	---

days

2

Dates can be written using only numbers for the day, month and year.

For example, the 1st day of July in 2016 can be written as

1 / 7 / 2016

a) Write out the following dates using only numbers:

the 3rd day of March in the year 1989

3 / 3 / 1989

the 7th day of April in the year 2014

7 / 4 / 2014

the 10th day of January in the year 2017

10 / 1 / 2017

b) Which months are in the following dates?

11 / 5 / 1997

May

2 / 8 / 2009

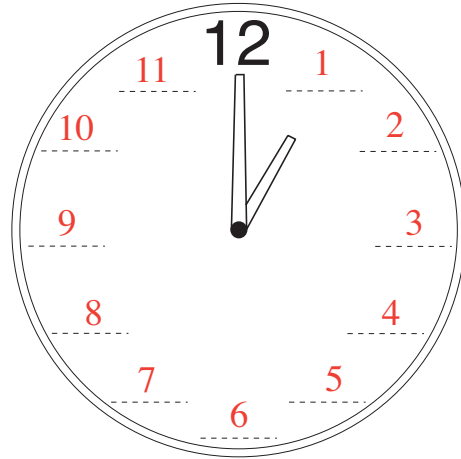
August

23 / 7 / 2011

July

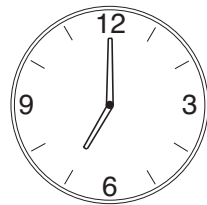
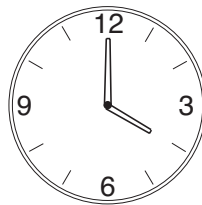
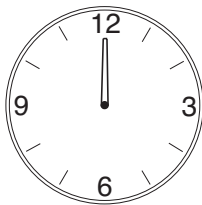
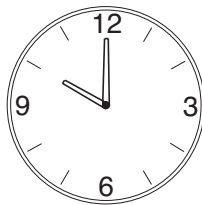
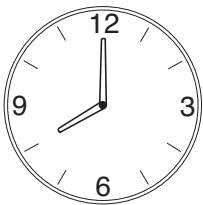
1

Write the numbers on the clock.



2

At whole hours the long hand points to 12 and the short hand to the hour. What is the time on each clock?



. 8 . o'clock . 10 o'clock . 12 . o'clock . 4 . o'clock . 7 . o'clock

3

a) It is 8 o'clock. What time will it be in 3 hours?

o'clock

b) It is 12 o'clock. What time was it 5 hours ago?

o'clock

c) It is 7 am. What time will it be in 3 hours?

am / ~~pm~~

d) It is 4 pm. What time was it 2 hours ago?

~~am~~ / pm

e) It is 6 am. What time will it be in 5 hours?

am / ~~pm~~

4

a) $0 + 0 =$

e) $10 - 3 =$

i) $6 + 2 - 5 =$

b) $3 + 5 =$

f) $4 - 2 =$

j) $2 + 0 + 3 =$

c) $4 + 4 =$

g) $9 - 2 =$

k) $8 + 2 - 5 =$

d) $7 + 0 =$

h) $3 - 0 =$

l) $0 + 0 - 0 =$

1

Fill in the missing numbers.

$4 + \boxed{5} = 6 + 3$

$10 - \boxed{5} = 2 + 3$

$\boxed{} \boxed{9} - 5 = 8 - 4$

$\boxed{8} + 2 = 2 + 8$

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

$\boxed{} \boxed{8} - 4 = 2 + 2$

$5 + \boxed{3} = 10 - 2$

$9 - \boxed{8} = 6 - 5$

$\boxed{1} \boxed{0} - 3 = 4 + 3$

2

Fill in the missing numbers. Write in what the lower arrows mean.

a)

$$6 \begin{array}{c} \xrightarrow{+2} \\ \xleftarrow{-2} \end{array} \boxed{8} \begin{array}{c} \xrightarrow{+2} \\ \xleftarrow{-2} \end{array} \boxed{1} \boxed{0}$$

b)

$$10 \begin{array}{c} \xrightarrow{-5} \\ \xleftarrow{+5} \end{array} \boxed{5} \begin{array}{c} \xrightarrow{-2} \\ \xleftarrow{+2} \end{array} \boxed{3}$$

c)

$$\boxed{2} \begin{array}{c} \xrightarrow{+3} \\ \xleftarrow{-3} \end{array} 5 \begin{array}{c} \xrightarrow{+5} \\ \xleftarrow{-5} \end{array} \boxed{1} \boxed{0}$$

d)

$$\boxed{1} \boxed{0} \begin{array}{c} \xrightarrow{-1} \\ \xleftarrow{+1} \end{array} 9 \begin{array}{c} \xrightarrow{-6} \\ \xleftarrow{+6} \end{array} \boxed{3}$$

3

Fill in the missing numbers.

a) $10 = 10 - \boxed{0}$

b) $3 = \boxed{1} \boxed{0} - 7$

$7 = 10 - \boxed{3}$

$2 = \boxed{1} \boxed{0} - 8$

$0 = 10 - \boxed{1} \boxed{0}$

$4 = \boxed{1} \boxed{0} - 6$

$4 = 10 - \boxed{6}$

$9 = \boxed{1} \boxed{0} - 1$

$9 = 10 - \boxed{1}$

$10 = \boxed{1} \boxed{0} - 0$

4

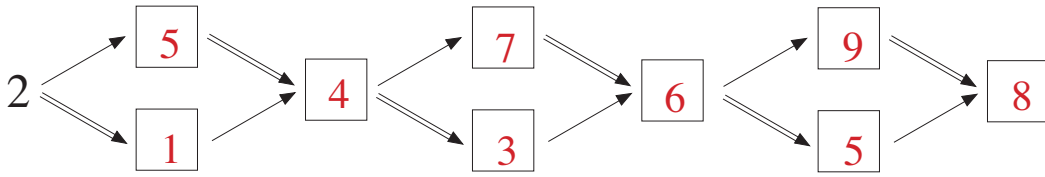
George went fishing with his Dad. They caught 10 fish in 3 hours. They stopped fishing at 9 o'clock. When did they start fishing?

Start**Time fishing****Finish**

$$\boxed{6} \text{ o'clock} + \boxed{3} \text{ hours} = \boxed{9} \text{ o'clock}$$

1

The arrows mean $+3$ and -1 Fill in the missing numbers.

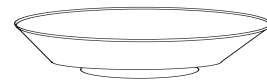


2

- | | | | | | |
|----|---------------------|----|-----------------------|----|---------------------|
| a) | $\boxed{5} + 3 = 8$ | b) | $\boxed{4} + 3 = 7$ | c) | $\boxed{3} + 6 = 9$ |
| | $\boxed{0} + 8 = 8$ | | $\boxed{0} + 1 = 1$ | | $\boxed{1} + 0 = 1$ |
| | $\boxed{9} + 0 = 9$ | | $\boxed{8} + 2 = 10$ | | $\boxed{2} + 2 = 4$ |
| | $\boxed{3} + 2 = 5$ | | $\boxed{0} + 10 = 10$ | | $\boxed{6} + 1 = 7$ |
| | $\boxed{3} + 1 = 4$ | | $\boxed{4} + 4 = 8$ | | $\boxed{7} + 2 = 9$ |

3

On a plate there were some sweets: 1 chocolate, 2 mints and 2 toffees.
Peter has eaten one sweet more than Julie.
How many sweets has Julie eaten if there is nothing left on the plate?

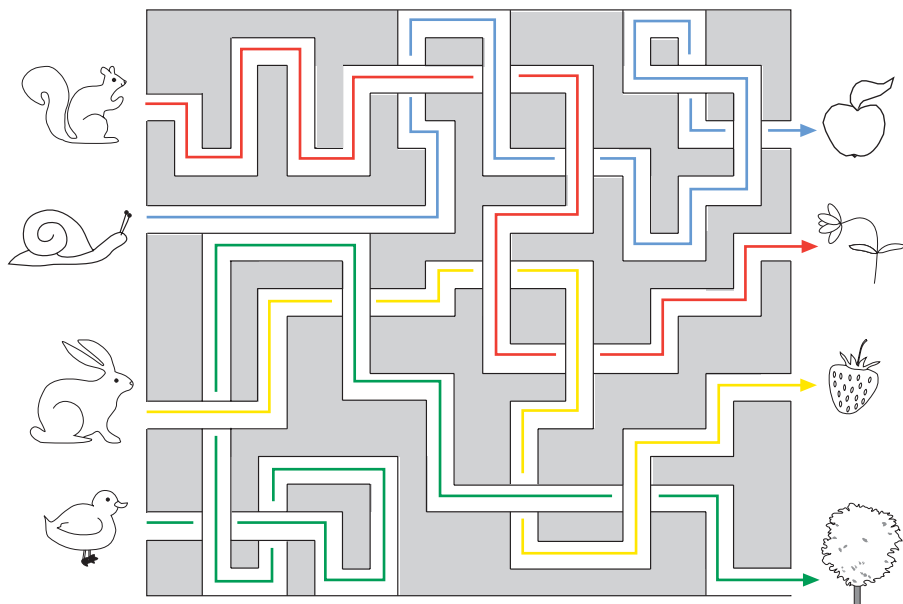


Julie has eaten $\boxed{2}$ sweets.

4

Where will the animals come out?

Draw their routes.



1

Fill in **even** numbers in red and **odd** numbers in blue.

$$2 \xrightarrow{+3} \boxed{5} \xrightarrow{+1} \boxed{6} \xrightarrow{+2} \boxed{8}$$

$$1 \xrightarrow{+4} \boxed{5} \xrightarrow{+2} \boxed{7} \xrightarrow{+1} \boxed{8}$$

2

Fill in the missing numbers. Write in what the lower arrows mean.

$$\boxed{2} \xrightleftharpoons[\boxed{-1}]{+1} \boxed{3} \xrightleftharpoons[\boxed{-7}]{+7} 10$$

$$\boxed{1} \boxed{0} \xrightleftharpoons[\boxed{+4}]{-4} \boxed{6} \xrightleftharpoons[\boxed{+3}]{-3} 3$$

$$3 \xrightleftharpoons[\boxed{-7}]{+7} \boxed{1} \boxed{0} \xrightleftharpoons[\boxed{+5}]{-5} \boxed{5}$$

$$\boxed{1} \boxed{0} \xrightleftharpoons[\boxed{+6}]{-6} 4 \xrightleftharpoons[\boxed{+3}]{\boxed{-3}} \boxed{1}$$

3

Which numbers make the statements correct?

a) $5 + 5 - \boxed{3} > 10 - 7 + 3$ b) $10 - 5 + \boxed{3} < 2 + 3 + 4$

c) $6 + 4 - 3 = 10 - 8 + \boxed{5}$ d) $10 - 3 - 4 = 2 + \boxed{0} + 1$

4

Compare the answers. Write the correct signs between them. $>$, $=$, $<$

$$1 + 7 - 4 \underset{4}{\boxed{>}} 1 + 6 - 4 \underset{3}{\boxed{>}} 1 + 6 - 5 \underset{2}{\boxed{<}} 1 + 6 - 2 \underset{5}{\boxed{>}} 1 + 5 - 2 \underset{4}{\boxed{>}}$$

5

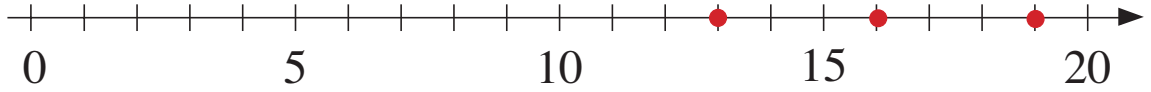
Find the rule for each sequence. Write in the missing numbers and signs.

a) $\boxed{+} \boxed{4} \quad \boxed{-} \boxed{3} \quad \boxed{+} \boxed{4} \quad \boxed{-} \boxed{3} \quad \boxed{+} \boxed{4} \quad \boxed{-} \boxed{3}$
 $0 \longrightarrow 4 \longrightarrow 1 \longrightarrow 5 \longrightarrow \boxed{2} \longrightarrow \boxed{6} \longrightarrow \boxed{3}$

b) $\boxed{+} \boxed{4} \quad \boxed{-} \boxed{5} \quad \boxed{+} \boxed{4} \quad \boxed{-} \boxed{5} \quad \boxed{+} \boxed{4} \quad \boxed{-} \boxed{5}$
 $3 \longrightarrow 7 \longrightarrow 2 \longrightarrow 6 \longrightarrow \boxed{1} \longrightarrow \boxed{5} \longrightarrow \boxed{0}$

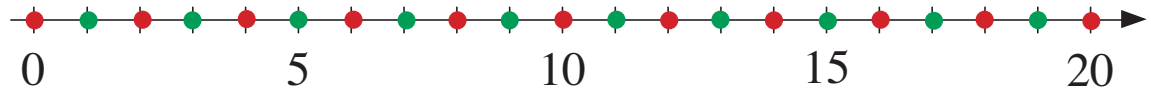
1

Mark these numbers with dots on the number line: 13, 16, 19



2

Mark the places of even numbers with red dots and odd numbers with green dots.



3

How many pennies are in the piggy-banks? Join up the equal amounts.

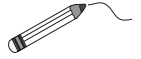
Piggy Bank 1: 10, 1, 1, 1, 1, 1, 1, 1, 1, 1
 Piggy Bank 2: 10, 1
 Piggy Bank 3: 10, 1, 1, 1, 1, 1, 1, 1, 1, 1
 Piggy Bank 4: 10
 Piggy Bank 5: 10, 1, 1, 1, 1, 1
 Piggy Bank 6: 10, 10

Equation 1: $10 + 1$
 Equation 2: $10 + 4$
 Equation 3: $10 + 0$
 Equation 4: $10 + 10$
 Equation 5: $10 + 8$
 Equation 6: $10 + 5$

Bar Chart 1: 10 shaded, 10 unshaded
 Bar Chart 2: 14 shaded, 6 unshaded
 Bar Chart 3: 10 shaded, 10 unshaded
 Bar Chart 4: 10 shaded, 10 unshaded
 Bar Chart 5: 10 shaded, 10 unshaded
 Bar Chart 6: 10 shaded, 10 unshaded

Number 1: 20
 Number 2: 15
 Number 3: 10
 Number 4: 11
 Number 5: 14
 Number 6: 18

Connections:
 Piggy Bank 1 → Equation 1 → Bar Chart 1 → Number 1
 Piggy Bank 2 → Equation 2 → Bar Chart 2 → Number 5
 Piggy Bank 3 → Equation 3 → Bar Chart 3 → Number 3
 Piggy Bank 4 → Equation 4 → Bar Chart 4 → Number 4
 Piggy Bank 5 → Equation 5 → Bar Chart 5 → Number 2
 Piggy Bank 6 → Equation 6 → Bar Chart 6 → Number 6



1

Join up equal values.

Box 1: 1 ten + 6 units → 1 ten + 6 units → 10 + 3 → 20
 Box 2: 2 tens + 0 units → 1 ten + 9 units → 10 + 7 → 19
 Box 3: 1 ten + 3 units → 1 ten + 3 units → 10 + 6 → 12
 Box 4: 1 ten + 10 units → 1 ten + 3 units → 10 + 10 → 16
 Box 5: 1 ten + 2 units → 1 ten + 2 units → 10 + 9 → 13
 Box 6: 1 ten + 7 units → 1 ten + 7 units → 10 + 2 → 17

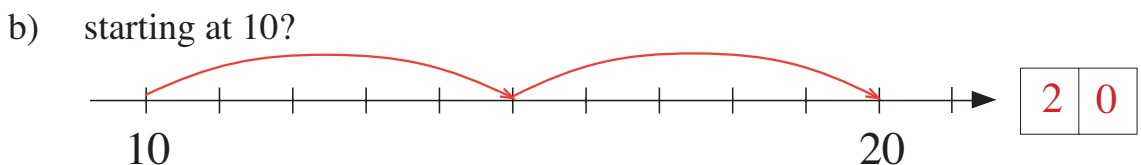
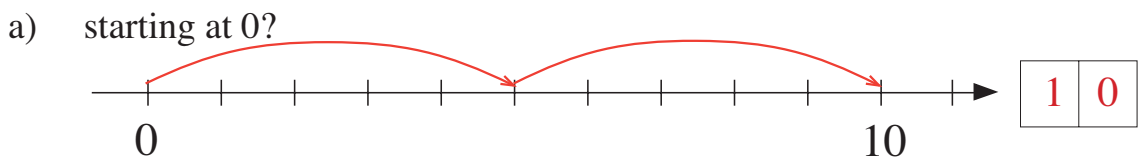
2

Complete the table.

Tens	⓪	1	1	0	2	1	1
Units	①	3	5	2	0	9	7
Adding +	10 + 3	10 + 5	0 + 2	10 + 10	10 + 9	10 + 7	
Number	13	15	2	20	19	17	

3

Write in the boxes where you would get to if you moved 5 to the right:



1

Complete the drawings. Write additions about the pictures.

Before	Added	After

$$3 + 4 = 7$$

Before	Added	After

$$13 + 4 = 17$$

Before	Added	After

$$3 + 14 = 17$$

2

Complete the drawings. Write subtractions about the pictures.

Before	Paid	After

$$5 - 3 = 2$$

Before	Paid	After

$$15 - 3 = 12$$

Before	Paid	After

$$15 - 13 = 2$$

3

Complete the additions and subtractions.

a) $5 + 1 = 6$

$15 + 1 = 16$

$5 + 11 = 16$

$4 + 3 = 7$

$14 + 3 = 17$

$4 + 13 = 17$

b) $9 - 5 = 4$

$19 - 5 = 14$

$19 - 15 = 4$

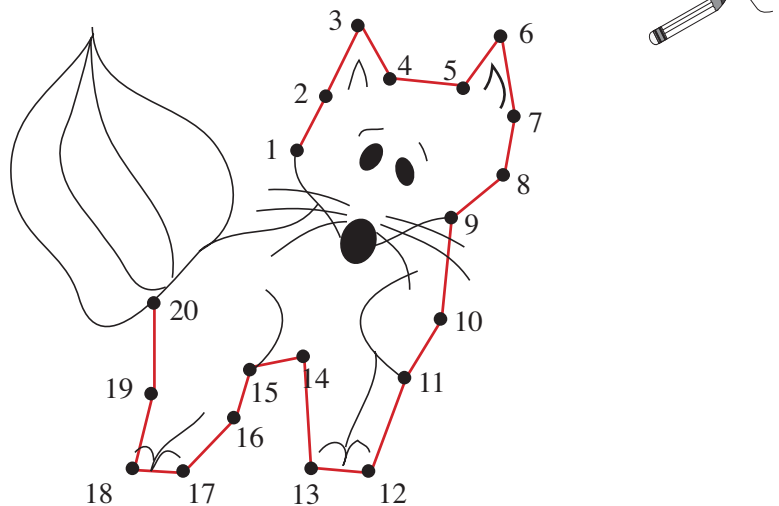
$6 - 4 = 2$

$16 - 4 = 12$

$16 - 14 = 2$

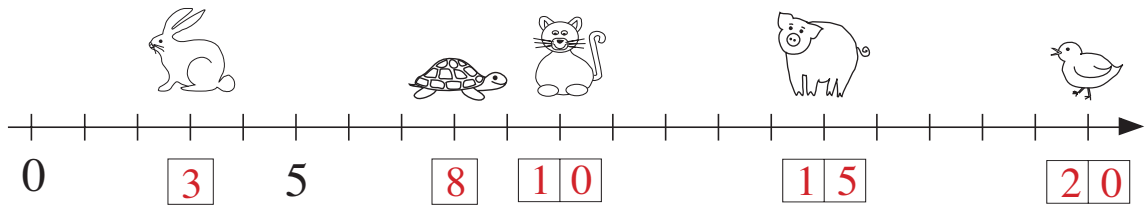
4

Join up the numbers in **increasing** order.



1

At which numbers have we drawn the pictures?



2

Write down additions and subtractions for each picture.

1	0	+	5	=	1 5	
5	+	1	0	=	1 5	
1	5	-	5	=	1 0	
1	5	-	1	0	=	5

1	0	+	4	=	1 4	
4	+	1	0	=	1 4	
1	4	-	4	=	1 0	
1	4	-	1	0	=	4

1	0	+	6	=	1 6	
6	+	1	0	=	1 6	
1	6	-	6	=	1 0	
1	6	-	1	0	=	6

3

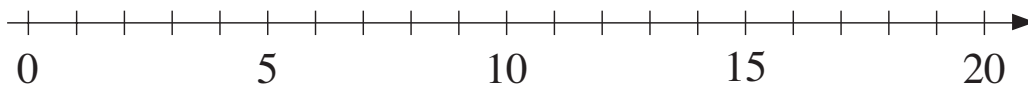
What is the rule? Fill in the missing numbers and signs.

$$10 \xrightarrow{+3} 13 \xrightarrow{-2} 11 \xrightarrow{+3} 14 \xrightarrow{-2} 12$$

$$20 \xrightarrow{-8} 12 \xrightarrow{+7} 19 \xrightarrow{-8} 11 \xrightarrow{+7} 18$$

4

Write equations about the moves. Where does get to if he starts at:



- a) 15 and moves 5 steps to the left
- b) 15 and moves 5 steps to the right
- c) 15 and moves 10 steps to the left
- d) 17 and moves 4 steps to the left
- e) 17 and moves 3 steps to the right
- f) 17 and moves 14 steps to the left?

1	5	-	5	=	1	0
1	5	+	5	=	2	0
1	5	-	1	0	=	5
1	7	-	4	=	1	3
1	7	+	3	=	2	0
1	7	-	1	4	=	3

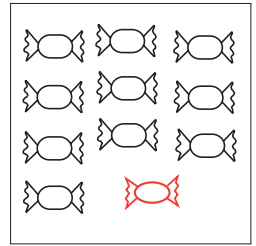
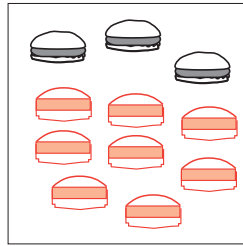
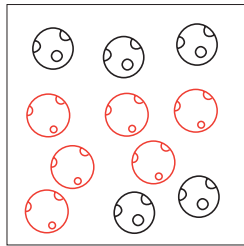
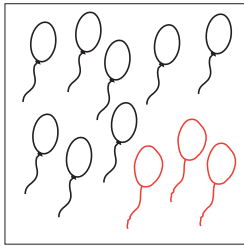
1

Continue the pattern.

$11 - 1 = 10$ $11 - 10 = 1$ $11 - 10 = 1$

2

Complete the pictures to make 11.



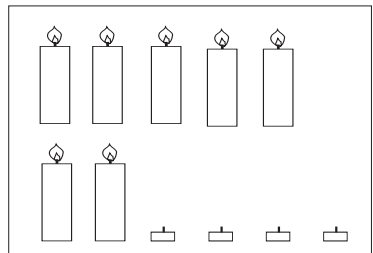
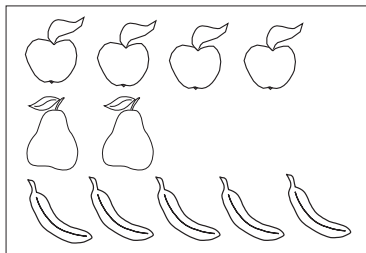
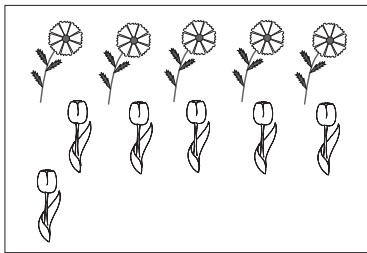
3

Complete the table. $a + b = 11$; $b = 11 - a$

<i>a</i>	0	1	2	3	4	5	6	7	8	9	10	11
<i>b</i>	11	10	9	8	7	6	5	4	3	2	1	0

4

What do the pictures tell you? Write equations about them.



E.g:

5	+	6	=	11		
6	+	5	=	11		
11	-	6	=	5		
11	-	5	=	6		

4	+	2	+	5	=	11
11	-	5	-	4	=	2
11	-	4	-	2	=	5
11	-	5	-	2	=	4

7	+	4	=	11		
4	+	7	=	11		
11	-	4	=	7		
11	-	7	=	4		

5

Write in the answers as Roman numerals.

a) $VIII + I = IX$

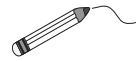
b) $IX + I = X$

c) $X + I = XI$

d) $VII + II = IX$

e) $VII + III = X$

f) $VII + IV = XI$



1

Join up the equations with the correct picture. Fill in the missing numbers.

$5 + 6 = 11$		$3 + 8 = 11$
$11 - 8 = 3$		$11 - 5 = 6$
$11 - 6 = 5$		$11 - 3 = 8$
$10 + 1 = 11$		$11 - 1 = 10$
$11 - 10 = 1$		$6 + 5 = 11$
$8 + 3 = 11$		$1 + 10 = 11$

2

How many books are on each shelf? Write it down as an addition.

a) $1 + 1 + 9 = 11$

b) $1 + 2 + 8 = 11$ $1 + 2 + 8 = 11$

c) $1 + 4 + 6 = 11$

3

Colour in the houses as shown.

Even: R Odd: B
 1-digit: G 2-digit: Y

--	--	--	--	--	--	--	--

4

Vera put 3p more into her piggy bank than into her purse.

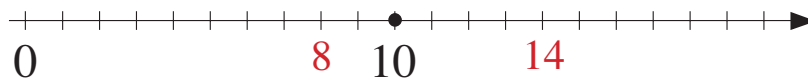
Where could she have put her money? Complete the table and equations.

	a	5	7	0	3	4	10	8	1	6	2	$a = b - 3$
	b	8	10	3	6	7	13	11	4	9	5	$b = a + 3$

How much did she put into her piggy bank if she had 11p altogether? 7 p

1

Fill in the missing numbers. Mark them on the number line.



$$\boxed{} \quad 8 <^3 \quad 1 \quad 1 <^3 \quad 1 \quad 4$$

$$1 \quad 1 + 3 = 1 \quad 4$$

$$1 \quad 4 - 3 = 1 \quad 1$$

$$1 \quad 1 - 3 = 8$$

$$\boxed{} \quad 8 + 3 = 1 \quad 1$$

2

Fill in the missing numbers and signs.

a) $3 \begin{array}{c} \xrightarrow{+5} \\ \xleftarrow{-5} \end{array} \boxed{} \quad 8 \begin{array}{c} \xrightarrow{+3} \\ \xleftarrow{-3} \end{array} \boxed{1} \quad \boxed{1}$

b) $11 \begin{array}{c} \xrightarrow{-5} \\ \xleftarrow{+5} \end{array} \boxed{} \quad 6 \begin{array}{c} \xrightarrow{-3} \\ \xleftarrow{+3} \end{array} \boxed{} \quad 3$

c) $\boxed{} \quad 7 \begin{array}{c} \xrightarrow{+4} \\ \xleftarrow{-4} \end{array} 11 \begin{array}{c} \xrightarrow{-9} \\ \xleftarrow{+9} \end{array} \boxed{} \quad 2$

d) $20 \begin{array}{c} \xrightarrow{-9} \\ \xleftarrow{+9} \end{array} 11 \begin{array}{c} \xrightarrow{-5} \\ \xleftarrow{+5} \end{array} \boxed{} \quad 6$

3

Fill in the missing numbers.

a) $11 = 2 + 8 + \boxed{1}$ b) $1 = 11 - 2 - \boxed{8}$ c) $11 = 20 - 6 - \boxed{3}$

d) $10 = 5 + \boxed{3} + 2$ e) $5 = 11 - 8 + \boxed{2}$ f) $11 = \boxed{2} + 3 + 6$

4

Kate and Mary had 20p in total. Kate had 11p.

How much money did Mary have?

$$\boxed{2} \quad \boxed{0} - \boxed{1} \quad \boxed{1} = \boxed{9} \text{ p}$$

5

Fill in the missing numbers.

a) $3 + 7 = \boxed{1} \quad \boxed{0}$ b) $11 - \boxed{6} = 5$ c) $1 + 7 = \boxed{8}$

d) $8 + \boxed{2} = 10$ e) $10 - 2 = \boxed{8}$ f) $11 - 7 = \boxed{4}$