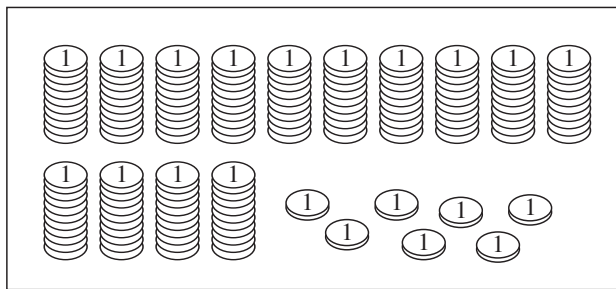


1

Count the amount in the box and write the number in the place-value table.



$$\left(\begin{array}{c} 10 \\ \text{stack of 10 coins} \\ = \\ 100 \end{array} \right)$$

H	T	U

2

a) Write the numbers as digits.

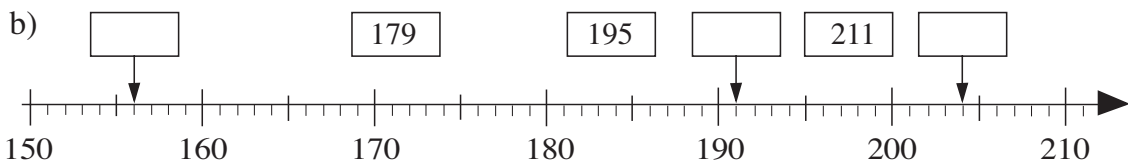
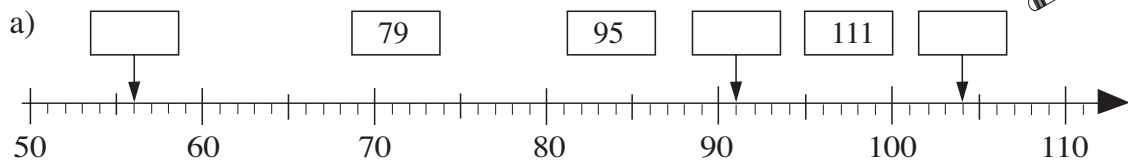
- i) seventy eight ii) one hundred and seventy eight
 iii) eight iv) one hundred and eight
 v) one hundred and eighty
 vi) one hundred and eighty seven vii) seventy

b) List these numbers in **increasing** order.

< < < < < <

3

Fill in the missing numbers. Join up the given numbers to the number line.



4

a) What will the milometer show when we have gone another mile?

0 1 4 9	0 1 8 9	0 1 9 9	0 1 3 8
↓	↓	↓	↓
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

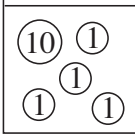
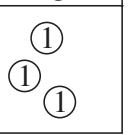
b) What did the milometer show 1 mile ago?

0 1 7 9	0 1 7 1	0 1 2 9	0 1 5 0
↑	↑	↑	↑
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

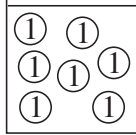
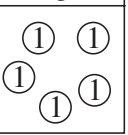
1

Write additions or subtractions about the pictures.

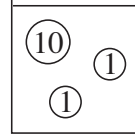
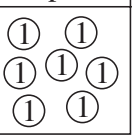
a)

Had	Was given
	

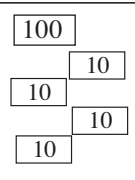
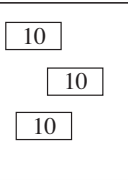
 b)

Had	Was given
	

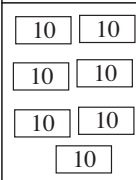
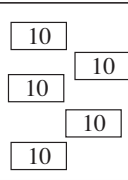
 c)

Had	Spent
	

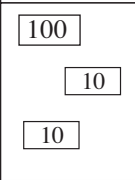
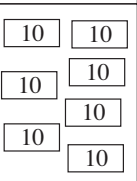
d)

Had	Was given
	

 e)

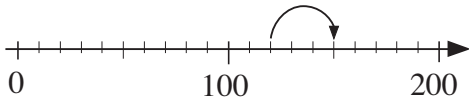
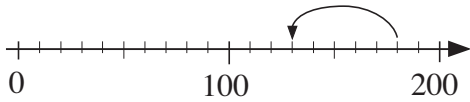
Had	Was given
	

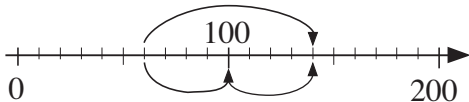
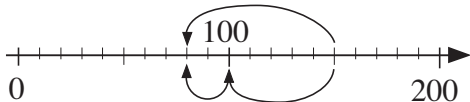
 f)

Had	Spent
	

2

Write operations about the jumps along the number lines.

a)  b) 

c)  d) 

3



Practise calculation.

a) $3 + 4 = \square$ $13 + 4 = \square$ $3 + 14 = \square$
 $30 + 40 = \square$ $130 + 40 = \square$ $30 + 140 = \square$

b) $7 - 5 = \square$ $17 - 5 = \square$ $17 - 15 = \square$
 $70 - 50 = \square$ $170 - 50 = \square$ $170 - 150 = \square$

4

Roberta keeps some of her money in a piggy bank and some of it in a purse. How much does Roberta have altogether? Complete the table.

Pence in 	80	180	30	120	50	60		80
Pence in 	20	20	170	40	130		130	
Pence in total						100	160	190

1

Who has more money? How much more?

a) *Anne* *Brian* b) *Colin* *Diana* c) *Ella* *Fred*

A: $100 + 3 \times 10 = 130$ C: E:
 B: $100 + 3 \times 1 = 103$ D: F:
 $130 > 103$
 $130 - 103 = 27$

2

Practise calculation:

- a) $2 + 8 = \square$ $20 + 80 = \square$ $2 + 9 = \square$ $20 + 90 = \square$
 b) $3 + 7 = \square$ $30 + 70 = \square$ $3 + 9 = \square$ $30 + 90 = \square$
 c) $10 - 4 = \square$ $100 - 40 = \square$ $12 - 4 = \square$ $120 - 40 = \square$
 d) $10 - 9 = \square$ $100 - 90 = \square$ $17 - 9 = \square$ $170 - 90 = \square$
 e) $90 + 40 = \square$ $80 + 50 = \square$ $90 - 40 = \square$ $180 - 50 = \square$
 f) $200 - 30 = \square$ $200 - 130 = \square$ $200 - 110 = \square$ $200 - 10 = \square$

3

Anne has £80 and Bob has £60.

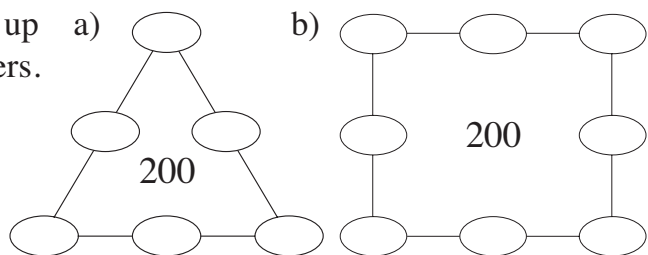
- a) How much money do they have altogether?.....
 b) How much money will they have altogether if:
 i) Anne is given an extra £10
 ii) Bob spends £20
 iii) they each spend £40
 iv) Anne spends £50 and Bob is given an extra £90?

4

The 3 numbers along each line add up to 200. Write in the missing numbers.

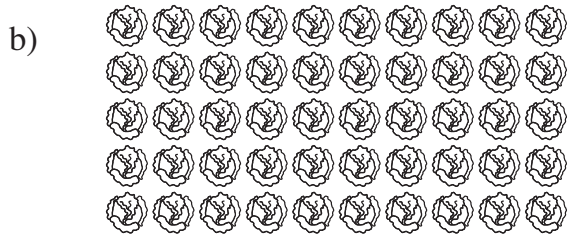
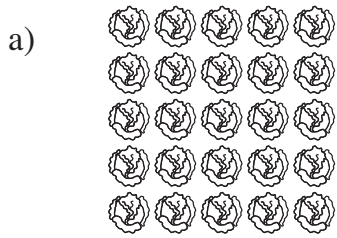
Choose from:

- a) 40, 50, 60, 70, 80, 90
 b) 30, 40, 50, 60, 70, 80, 90, 100



1

How many lettuces are in the gardens? Write additions and multiplications.



.....

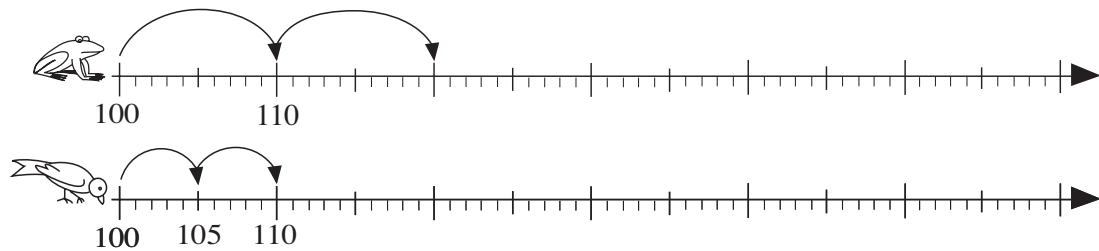
.....

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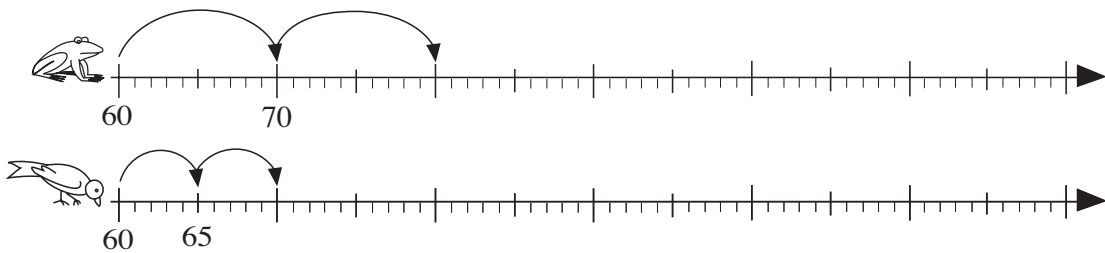
2

Frog jumps 10 units at a time and *Sparrow* jumps 5 units at a time along the number line. Draw their jumps and write the numbers they land on if:

a) they start from 100

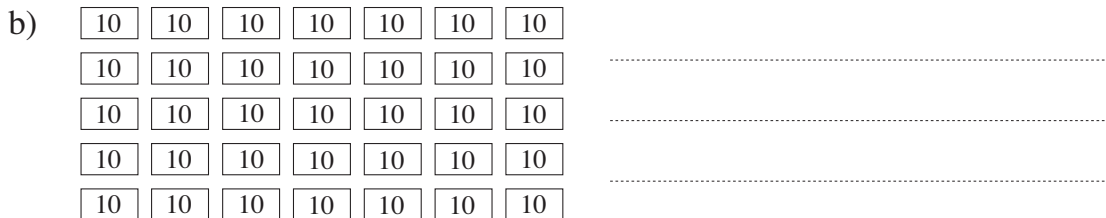
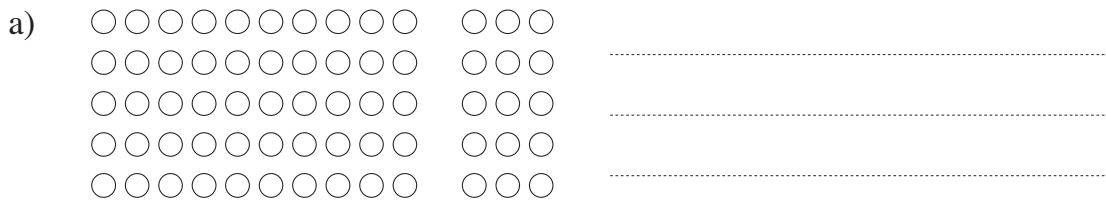


b) they start from 60.



3

Write an addition, a multiplication and a division about each picture.



1

Complete the table.

×	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	0																				
5			10																		
10							60														

2

a) Exchange these amounts for £2 coins. Draw the £2 coins in the boxes.

£12	£12	£16	£16																																													
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b) Exchange these amounts for £20 notes. Draw the £20 notes.

£120	£120	£160	£160																																													
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3

Practise calculation.

a) $6 \times \square = 60$	b) $\square \times 10 = 0$	c) $\square \times 3 = 60$
$7 \times \square = 35$	$40 \div \square = 4$	$16 \div \square = 8$
$\square \times 2 = 50$	$60 \div \square = 30$	$\square \div 2 = 100$
$\square \times 7 = 140$	$\square \div 8 = 20$	$\square \div 20 = 0$
$\square \times 10 = 110$	$\square \div 6 = 30$	$\square \div 50 = 3$

4

Among how many children can 60 apples be shared equally if we do not cut up any apples? Show your answer by writing divisions.

$60 \text{ a} \div 2 = 30 \text{ a}$

.....

.....

.....

.....

1

Practise calculation.

- a) $40 + 90 - 20 = \square$ $180 - 60 - 50 = \square$ $110 - 40 + 90 = \square$
 b) $6 \times 10 \times 2 = \square$ $150 \div 5 \div 10 = \square$ $16 \div 2 \times 5 \div 10 = \square$
 c) $110 - 5 \times 8 = \square$ $90 - 60 \div 10 = \square$ $9 \times 10 - 45 \div 5 = \square$
 d) $5 \times 7 + 100 = \square$ $130 \div 10 + 10 = \square$ $180 - 8 \times 10 - 40 = \square$

2

Which of the numbers 0, 1, 2, 3, 4 or 5 could be put in the place of the missing digits so that the numbers are even? List the possible 3-digit numbers.

- a) 1 5 \square c) \square 16
 b) 1 \square 5 d) 1 0 \square

3

Write a plan, do the calculation and write the answer as a sentence.

- a) Henry had 70 p. He paid a bill with five 10 p coins.
 How much money did he have left?

Answer:

- b) Judith paid a bill with ten 5 p coins and had 70 p left.
 How much money did she have at first?

Answer:

- c) Sue has 70 p. A sweet costs 1 tenth of her money.
 How much will Sue pay if she buys 5 sweets?

Answer:

4

Solve the number puzzle.

Across

- a $152 - 20 \times 2$
 d $60 + 100 - 10$
 e $100 \div 5 + 2$

a	b	c
d		
	e	

Down

- a $200 \div 10 - 9$
 b $12 + 70 \times 2$
 c $400 \div 2 + 2 \div 1$

1

Fill in the missing items.

a) 1 m 72 cm = cm

b) 1 m 8 cm = cm

148 cm = 1 48

1 and a half metres = cm

c) 1 litre 25 cl = 125

d) 1 litre 5 cl = cl

151 cl = litres 51

and a half litres = 150 cl

e) 2 litres water → kg

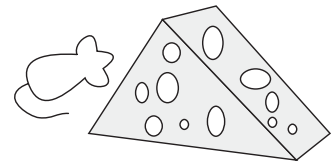
f) 200 g 1 kg

1 km 300 m

130 cl 1 litre

2

Mrs Mouse had 180 g of cheese. Help her to work out how much cheese has been eaten and how much remains. Complete the table.



Eaten (g)			170	25		75	34	115		180	
Remaining (g)	180	40			48				140		

Rule: 180 g =

E =

R =

3

Fill in the missing numbers and standard units.

a) 45 cm × 2 =

180 kg ÷ 10 =

b) 150 litres ÷ 5 =

23 litres × 5 =

c) 1 m 30 cm ÷ 2 =

1 m 30 cm × 5 =

4

Write a plan, do the calculation and write the answer as a sentence.

- a) Sarah's younger brother is 90 cm tall. Sarah is 40 cm taller than her brother. How tall is Sarah?

Answer:

- b) A desk is 70 cm high. We put 6 books, each 5 cm thick, one on top of the other on the desk. If we put a pencil on top of the pile of books, how far will the pencil be from the floor?

Answer:

1

Write additions or subtractions about the pictures.

a)

Had (p)	Was given (p)
(20) (50)	(20) (1) (5)

.....

b)

Had (£)	Was given (£)
[50] [100] [20]	[20] (1) [5]

.....

c)

Had (p)	Spent (p)
(20) (20) (2) (20) (1)	(20) (1) (2)

.....

d)

Had (£)	Spent (£)
[20] [20] [100] [20] (2) (1)	[20] (1) (2)

.....

2

For each sequence, complete the rule and write the next 3 terms.

- a) This sequence is increasing by . 27, 47, 67,,,
- b) This sequence is increasing by . 9, 39,,,
- c) This sequence is decreasing by . 196, 166,,,
- d) This sequence is decreasing by . 200, 160,,,

3

Practise calculation.

- a) $27 + 60 = \square$ b) $70 + 19 = \square$ c) $36 - 20 = \square$
 $27 + 160 = \square$ $70 + 119 = \square$ $136 - 20 = \square$
 $127 + 60 = \square$ $170 + 19 = \square$ $136 - 120 = \square$

4

Fill in the missing numbers.

- a) $50 + \square = 76$ b) $\square + 13 = 53$ c) $153 - \square = 113$
 $50 + \square = 176$ $\square + 113 = 153$ $179 - \square = 40$
 $29 + \square = 39$ $\square + 50 = 93$ $\square - 16 = 130$
 $29 + \square = 139$ $\square + 150 = 193$ $\square - 120 = 15$

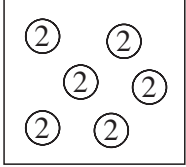
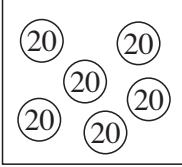
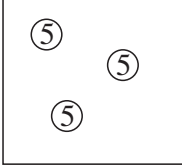
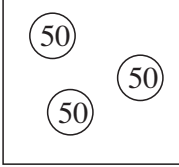
5

Greg and Helen have 58 postcards altogether. Greg has 30 more than Helen. How many cards do they each have?

Helen: Greg:

1

How many pence are in the boxes? Write a multiplication about each picture.

a)  b)  c)  d) 

.....

2

Complete the table.

×	11	12	13	14	15	16	17	18	19	20
3						48			57	
6		72		84				108		
9	99		117				153		171	

3

Calculate the **products** and **quotients**.

a) $6 \times 3 = \square$ $60 \times 3 = \square$ $6 \times 30 = \square$
 b) $9 \times 2 = \square$ $90 \times 2 = \square$ $9 \times 20 = \square$
 c) $15 \div 3 = \square$ $150 \div 3 = \square$ $150 \div 30 = \square$
 d) $12 \div 6 = \square$ $120 \div 6 = \square$ $120 \div 60 = \square$

4

Fill in the missing numbers.

a) $3 \times \square = 12$, $6 \times \square = 24$, $\square \times 3 = 150$, $\square \times 90 = 180$
 b) $18 \div \square = 9$, $180 \div \square = 90$, $180 \div \square = 9$, $\square \div 9 = 20$
 c) $\square \div 5 = 4$, $\square \div 50 = 4$, $\square \div 5 = 40$, $200 \div \square = 10$

5

a) Andrew has 90 football stickers, 3 times more than David.
How many stickers does David have?

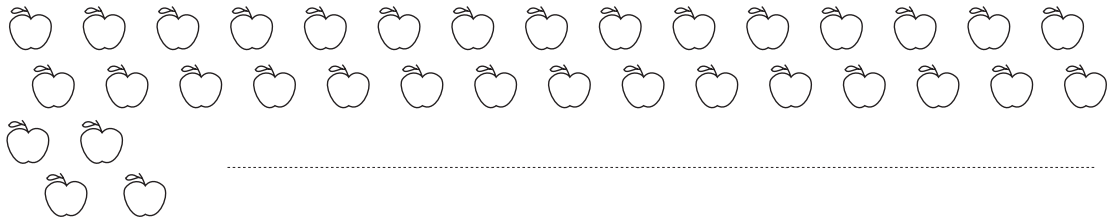
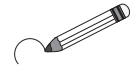
Answer:

b) Emma saved £30, which was 1 sixth of the amount that Vicky saved.
How much did Vicky save?

Answer:

1

Pack these apples in boxes of 9. How many boxes will be filled and how many apples will remain?



2

Exchange the £1 coins for £10 notes. How many £1 coins will remain? Complete the table.

Number of:

⊕ coins	46	75	100	107	140			
£10 notes						6	12	15
£s remaining						3	1	9

3

Practise division. Check with multiplication.

a) $19 \div 2 = \square$
 remainder \square
 Check

b) $25 \div 6 = \square$
 remainder \square
 Check

c) $30 \div 9 = \square$
 remainder \square
 Check

d) $27 \div 5 = \square$
 remainder \square
 Check

e) $53 \div 6 = \square$
 remainder \square
 Check

f) $134 \div 20 = \square$
 remainder \square
 Check

4

Each box can hold 6 eggs. How many boxes can be filled and how many eggs will remain? Complete the table. Complete the rule.

Number of:

	30	45	50	121	185			
filled						20	30	11
remaining						3	2	4

$$E = B \times \square + R$$

1

Write additions and subtractions about the pictures.

a) 

 b) 

2

Calculate the **sums** and **differences**.

$95 + 8 = \square$	$135 + 8 = \square$	$102 - 5 = \square$	$182 - 5 = \square$
$94 + 7 = \square$	$154 + 7 = \square$	$104 - 8 = \square$	$154 - 8 = \square$
$96 + 9 = \square$	$176 + 9 = \square$	$103 - 6 = \square$	$123 - 6 = \square$

3

Practise calculation.

a) $124 + 18 \div 3 = \square$	$152 + 48 \div 6 = \square$	$45 \div 9 + 165 = \square$
b) $180 - 36 \div 6 = \square$	$110 - 63 \div 9 = \square$	$120 \div 6 - 7 = \square$
c) $68 + 30 + 6 = \square$	$168 + 30 + 6 = \square$	$68 + 130 + 6 = \square$
d) $65 - 40 - 7 = \square$	$165 - 40 - 7 = \square$	$165 - 140 - 7 = \square$

4

Write a plan, do the calculation, check the answer and write it as a sentence.

a) Peter is 1 m 34 cm tall and Sarah is 8 cm taller. How tall is Sarah?

Answer:

b) A shop had 126 kg of apples in stock. This was 9 kg more than the amount of grapes in stock. How many kg of grapes were in the shop?

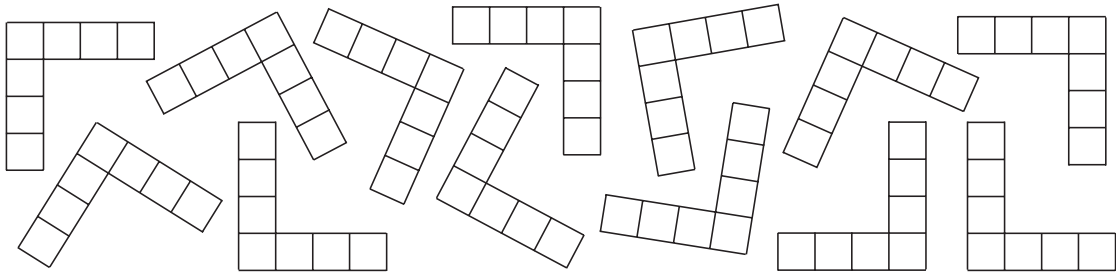
Answer:

c) There was 1 litre 50 cl of water in a jug. Another 50 cl of water was poured into the jug. How much water was in the jug then?

Answer:

1

Write operations about the picture.



.....

.....

2

Complete the table.

×	11	12	13	14	15	16	17	18	19	20
2	22			28	30		34			40
4		48	52			64		72	76	
8			104			128	136		152	160
7	77	84	91		105		119	126		

3

Practise multiplication and division.

- a) $3 \times 4 = \square$ $3 \times 40 = \square$ $30 \times 4 = \square$
- b) $2 \times 8 = \square$ $20 \times 8 = \square$ $2 \times 80 = \square$
- c) $16 \div 4 = \square$ $160 \div 4 = \square$ $160 \div 40 = \square$
- d) $14 \div 7 = \square$ $140 \div 7 = \square$ $140 \div 70 = \square$

4

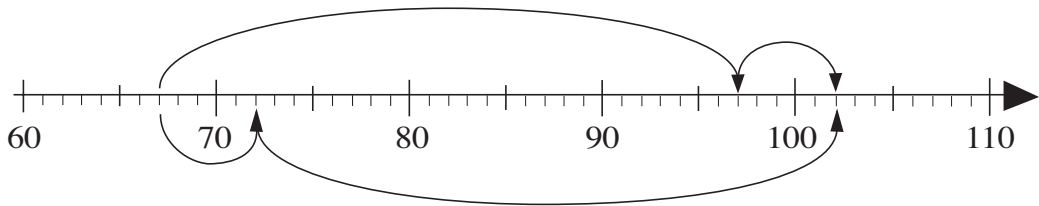
Fill in the missing numbers.

- a) $6 \times \square = 18$ b) $\square \times 4 = 160$ c) $20 \div \square = 5$
- $9 \times \square = 72$ $\square \times 30 = 120$ $180 \div \square = 90$
- $7 \times \square = 63$ $\square \times 9 = 180$ $\square \div 4 = 9$
- $8 \times \square = 48$ $\square \times 60 = 180$ $\square \div 8 = 20$
- $\square \times 7 = 0$ $\square \times 7 = 70$ $\square \div 7 = 7$

1

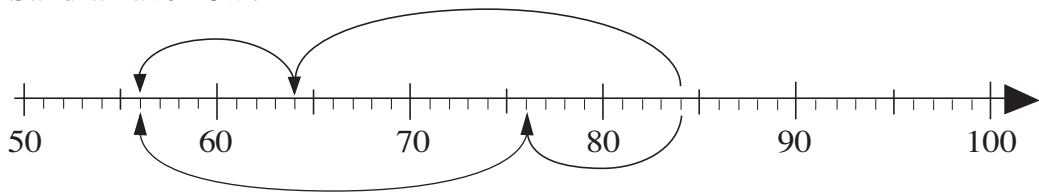
Write the calculations in two ways to match the arrows on the number lines.

- a) Dennis had saved £67. He was given £35 for his birthday. How much money does he have now?



1) 2)

- b) Sandra had 84 p. She bought a drink for 28 p. How much money does Sandra have now?



1) 2)

2

Calculate:

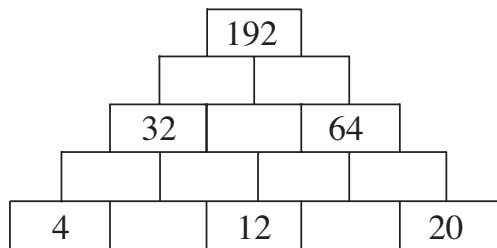
- a) $36 + 20 =$ $36 + 23 =$ $136 + 20 =$ $136 + 23 =$
 b) $57 + 8 =$ $57 + 38 =$ $157 + 8 =$ $157 + 38 =$
 c) $76 - 30 =$ $76 - 34 =$ $176 - 30 =$ $176 - 34 =$
 d) $92 - 50 =$ $92 - 56 =$ $192 - 50 =$ $192 - 56 =$

3

The sum of any two adjacent numbers is the number directly above them.

The numbers in the bottom row increase by 4.

Fill in the missing numbers.



4

5	89		23
	35		
		65	
	17	11	95

Fill in the numbers missing from the magic square.

The sums of the numbers in each row, column or diagonal are equal.

1

Write the calculation **without** brackets so that the result is the same.

- a) $128 + (30 + 5) = \square$
 b) $127 - (50 + 1) = \square$
 c) $146 - (90 - 16) = \square$
 d) $(50 - 7) \times 3 = \square$
 e) $(160 + 8) \div 8 = \square$

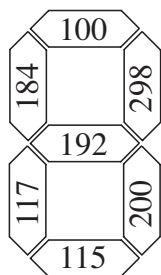
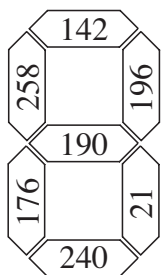
2

Calculate:

- a) $20 \times 6 = \square$ $20 \times (6 - 1) = \square$ $20 \times (6 \div 2) = \square$
 $20 \times (6 + 2) = \square$ $20 \times (6 \times 0) = \square$ $20 \times (6 + 4) = \square$
- b) $160 \div 8 = \square$ $160 \div (8 \div 2) = \square$ $160 \div (8 - 4) = \square$
 $160 \div (8 - 6) = \square$ $160 \div (8 \times 2) = \square$ $160 \div (8 \div 1) = \square$

3

Fill in the results and colour the matching sections to find the hidden number.



- $142 - 6 \times 7 = \square$ $(20 + 3) \times 8 = \square$
 $(120 - 40) \times 3 = \square$ $(140 + 7) \div 7 = \square$
 $(70 - 25 + 55) \times 2 = \square$ $62 + 20 \times 4 = \square$
 $(30 + 8) \times 5 = \square$ $30 \times 4 - 5 = \square$
 $(20 + 8) \times 7 = \square$ $6 \times (30 + 2) = \square$

4

Write the calculations in two ways, with and without brackets.

- a) Seven children went to gather chestnuts. They gathered 56 kg. Three of the children just played and did not collect any.

Share the chestnuts equally among the children who collected them. How many chestnuts will each child take home?



- 1) 2)

Answer:

- b) Steve had £1 50 p. The 6 members in Steve's gang spent £1 80 p altogether on sweets. Each paid the same amount. How much did Steve have left?

- 1) 2)

Answer:

1

Fill in the missing quantities.

1 metre	30 cm	half a metre		75 cm		500 mm	
			400 mm		92 cm		90 cm

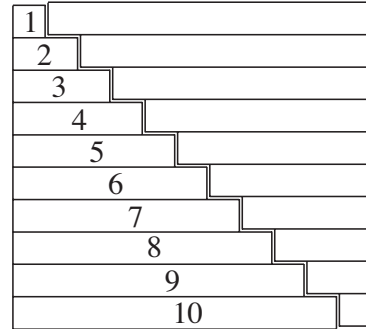
2

a) Add up the first 10 **positive** whole numbers.

.....

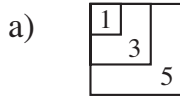
b) Find an easier way to do the calculation, using the diagram to help you.

.....



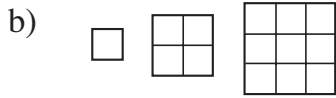
3

Continue the sequences by writing the next 6 terms. What is the rule?



1, 3, 5,,,,,,,

Rule:

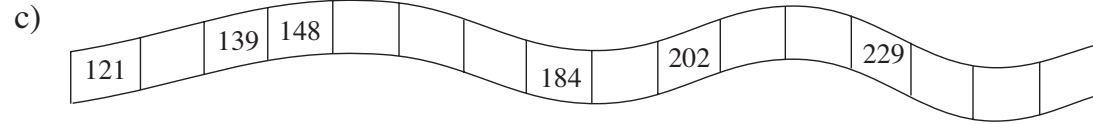
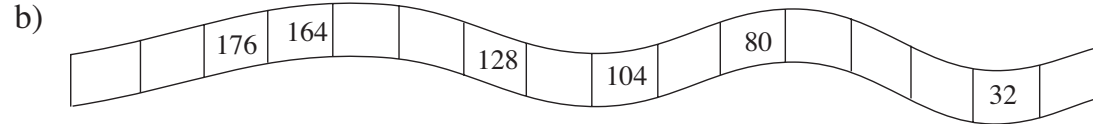
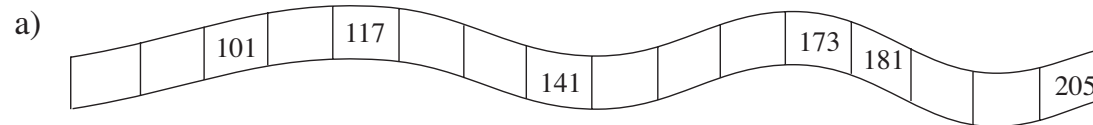


1, 4, 9,,,,,,,

Rule:

4

Fill in the numbers missing from the number strips.



5

Continue the sequences and write the rules.

a) 100, 106, 103, 109, 106,

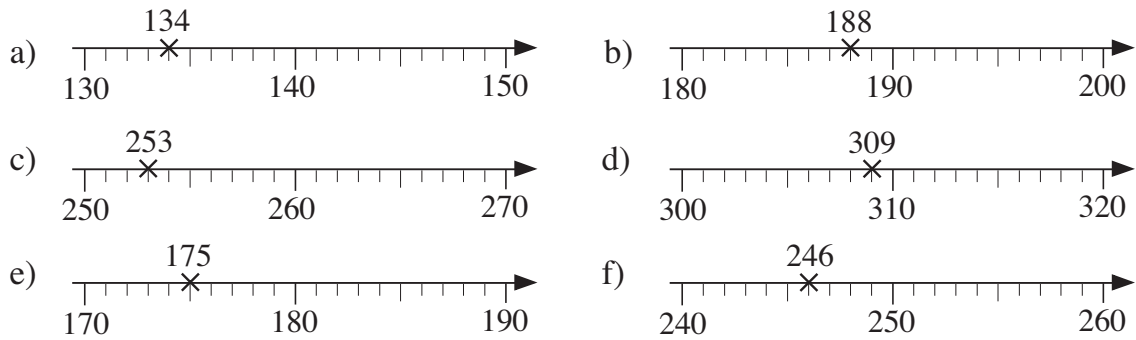
Rule:

b) 150, 143, 157, 150, 164,

Rule:

1

Draw a *red* dot at the whole ten nearest the number given.



2

List the whole numbers for which the nearest whole ten would be:

- a) 60 ≈
- b) 100 ≈
- c) 210 ≈

3

Which digits can be written instead of the squares so that the nearest whole ten is 260? List all the possible 3-digit numbers. (\approx means *nearly equal to*)

- a) \blacksquare 5 2 \approx 260
- b) \blacksquare 6 4 \approx 260
- c) 2 \blacksquare 5 \approx 260
- d) 2 \blacksquare 3 \approx 260
- e) 2 5 \blacksquare \approx 260
- f) 2 6 \blacksquare \approx 260

4

Two different numbers can be **rounded** to 70 as the nearest whole ten.

- a) Is it possible that both numbers are less than 70?
.....
- b) Is it possible that one of the numbers is 10 less than the other?
.....
- c) Is it possible that one of them has 5 and the other has 0 as the units digits?
.....
- d) Is it possible that both numbers are whole tens?
.....