Count the amount in the box and write the number in the place-value table. Write the numbers as digits. a) seventy eight ii) one hundred and seventy eight i) iii) eight one hundred and eight one hundred and eighty v) one hundred and eighty seven vii) seventy vi) List these numbers in **increasing** order. b) < Fill in the missing numbers. Join up the given numbers to the number line. a) b) What will the milometer show when we have gone another mile? a) What did the milometer show 1 mile ago? b)

Page 31

Write additions or subtractions about the pictures.

b)

e)

a) Had Was given

(10) (1) (1)
(1) (1)

Had	Was given

Had	Spent
10 (1)	

c)

f)

d) Had Was given

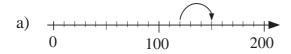
100 10
10
10
10
10

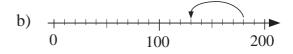
Had	Was given
10 10	10
10 10	10
10 10	10
10	10

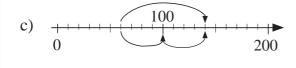
Had	Spent
100	10 10
10	10 10
10	10 10

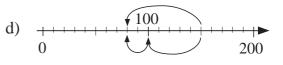
2

Write operations about the jumps along the number lines.









3

Practise calculation.

a)
$$3 + 4 =$$

$$17 - 15 =$$

$$70 - 50 =$$

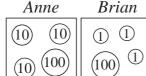
4

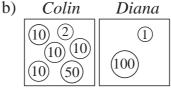
Roberta keeps some of her money in a piggy bank and some of it in a purse. How much does Roberta have altogether? Complete the table.

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

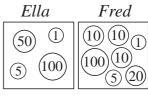
Who has more money? How much more?

a)





c)



 $A: 100 + 3 \times 10 = 130$

$$B: 100 + 3 \times 1 = 103$$

$$130 - 103 = 27$$

C:

D:			
D.	 	 	

E:

ŀ																																									
	-	 -	 -	 • •	-	-	-	-	• •	-	-	-	-	-	-	-	-	-	-	-	-	-	 	• •	 ٠	 -	•	-	-	-	-	•	 -	-	-	-	 •	-	-	-	

2

Practise calculation:

a)
$$2 + 8 =$$

$$20 + 80 =$$

$$3+9=$$
 3

100 - 90 =

$$12-4 =$$
 $120-40 =$

e) 90 + 40 =

f)
$$200-30 =$$

$$200 - 110 =$$

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?

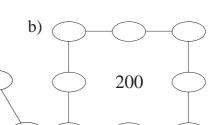
.....

200

4

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

a)



a) 40, 50, 60, 70, 80, 90

Choose from:

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

1	How many lettuces are in the gardens? Write additions and multiplications.
	a) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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
	100 110
	100 105 110
	b) they start from 60.
	60 70
	60 65
3	Write an addition, a multiplication and a division about each picture.
	a) 000000000 000 000 000 000 000 000 000
	b) 10 10 10 10 10 10 10 10 10 10 10 10 10

Sue spent some money on sweets. How much did she have left? Complete the table.

Had (p)	100	200	90	190	150	180	150	150
Spent (p)	50	50	60	160	140		110	
Had left (p)						70		10

2

Use only the digits 0, 1, 2, 3, 4 or 5. Which of these digits can be put in the units, tens or hundreds boxes so that the numbers are

- a) **exactly** divisible by 5
- 2 5
- $2 \boxed{} 0$
- 30
- 20

- b) **exactly** divisible by 10?
- 25
- $1 \bigcirc 0$
- 30
- 20

3

Fill in the missing numbers.

- a) 4 + 7 =
- 40 + 70 =
- 1 + 8 =
- 10 + 80 =

- b) 5 + 8 =
- 50 + 80 =
- 6+9 =
- 60 + 90 =

- , _____
- 200 50 =
- 13 4 =
- 130 40 =

- d) 30 6 =
- 300 60 =
- 15 8 =
- 150 80 =

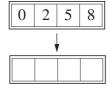
e) 75 - 9 =

c) 20 - 5 =

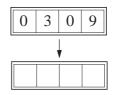
- 750 90 =
- 23 7 =
- 230 70 =

4

a) What will the milometer show when we have gone another 10 miles?

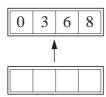


0 2 8 9

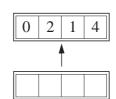


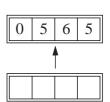
0	4	4	4
	,	,	

b) What did the milometer show 10 miles ago?



0 1 2 1





5

Which different 1-digit numbers could a, b and c

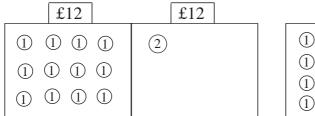
be if a+b+c=14 and $a\times b\times c=84$?

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.



±16	£16

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

£120	£120
10 10 10	20
10 10 10	
10 10 10	
10 10 10	

£160	£160
10 10 10 10	
10 10 10 10	
10 10 10 10	
10 10 10 10	

3

Practise calculation.

a)
$$6 \times \boxed{} = 60$$

c)
$$\times 3 = 60$$

$$\times 2 = 50$$

$$\div 2 = 100$$

$$\times 7 = 140$$

$$\div 8 = 20$$

$$\div 20 = 0$$

$$\times 10 = 110$$

$$\div 6 = 30$$

$$\div 50 = 3$$

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.

.....

_	1	
	П	
	П	

Practise calculation.

a)
$$40 + 90 - 20 = \boxed{180 - 60 - 50} = \boxed{110 - 40 + 90} = \boxed{}$$

b)
$$6 \times 10 \times 2 = \boxed{ 150 \div 5 \div 10 = \boxed{ 16 \div 2 \times 5 \div 10 = \boxed{ }} }$$

e)
$$110-5\times8 = \boxed{90-60 \div 10 = 9\times 10-45 \div 5 = }$$

d)
$$5 \times 7 + 100 =$$
 $130 \div 10 + 10 =$ $180 - 8 \times 10 - 40 =$



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.

- b) 1 5 d) 10

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

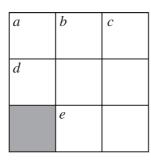
Solve the number puzzle.

Across

$$a = 152 - 20 \times 2$$

$$d = 60 + 100 - 10$$

$$e 100 \div 5 + 2$$



Down

$$a = 200 \div 10 - 9$$

$$b 12 + 70 \times 2$$

$$c \quad 400 \div 2 + 2 \div 1$$

1	Fill in the missing items.
	a) 1 m 72 cm = cm b) 1 m 8 cm = cm
	148 cm = 1
	c) 1 litre 25 cl = 125
	151 cl = litres 51 and a half litres = 150 cl
	e) 2 litres water \rightarrow 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 180 40
	Rule: $180 g = E = R =$
3	Fill in the missing numbers and standard units.
	a) $45 \text{ cm} \times 2 =$ $180 \text{ kg} \div 10 =$
	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 <u>1</u>

b

Had (£)	Was given (£)
50 100 20	20 <u>1</u> <u>5</u>

c)

a)

Had (p)	Spent (p)
20 20 1	② ① ②

d)

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

2

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

- •
- b) This sequence is increasing by ...

This sequence is increasing by

- c) This sequence is decreasing by

d) This sequence is decreasing by

. 200, 160,, .		٠.,		
----------------	--	-----	--	--

3

Practise calculation.

c)
$$36 - 20 =$$

$$127 + 60 =$$

$$136 - 120 =$$

4

Fill in the missing numbers.

a)
$$50 + \boxed{} = 76$$

b)
$$+ 13 = 53$$

c)
$$153 - \boxed{} = 113$$

$$+50 = 93$$

$$-16 = 130$$

$$+150 = 193$$

$$-120 = 15$$

5

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

Helen: Greg:

- 1
- 1

Write these numbers in the correct boxes.

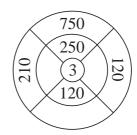
0, 3, 6, 7, 9, 13, 22, 34, 67, 88, 102, 112, 123, 156, 187

Even	Odd

2

Write the rule and fill in the missing numbers.

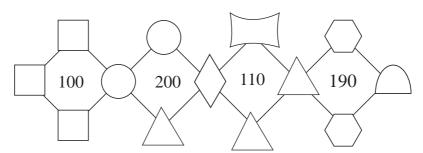
Rule:



3

The same shape means the same number. The number in the middle is the **sum** of the 4 numbers around it. Fill in the missing numbers. Choose from:

10, 20, 30, 40, 50, 60 or 70.



4

Fill in the numbers missing from the snakes. Write the rules in their heads.

- a) 109 117 125 141 •
- b) 155 143 125 113 •

5

Join up the equal amounts.

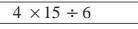


$$36 \div 6 + 100$$

3 quarters of 40

2 thirds of 18, minus 2

1 half of 50



1 fifth of 125

 $57 + 7 \times 7$

 $(72+18) \div 3$

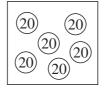
1	

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

a)

2 2
2 2
2 2

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	

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

a)
$$6 \times 3 =$$

$$60 \times 3 =$$

$$6 \times 30 =$$

$$90 \times 2 =$$

$$9 \times 20 =$$

c)
$$15 \div 3 =$$

d)
$$12 \div 6 =$$

Fill in the missing numbers.

a)
$$3 \times \boxed{} = 12, \ 6 \times \boxed{} = 24, \ \boxed{} \times 3 = 150,$$

$$\times 3 = 150,$$

b)
$$18 \div \boxed{} = 9, \ 180 \div \boxed{} = 90, \ 180 \div \boxed{}$$

$$180 \div = 9,$$

$$\div 9 = 20$$

c)
$$\div 5 = 4$$
, $\div 50 = 4$,

$$\div 5 = 40, 200 \div \boxed{} = 10$$

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

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

1	Pack these apples in boxes of 9. How many boxes will be filled and how many apples will remain? DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
2	Exchange the £1 coins for £10 notes. How many £1 coins will remain? Complete the table.
	Number of:
	£1) coins 46 75 100 107 140
	£10 notes 6 12 15
	£s remaining 3 1 9
3	Practise division. Check with multiplication. a) $19 \div 2 = \boxed{\hspace{0.5cm}}$ b) $25 \div 6 = \boxed{\hspace{0.5cm}}$ c) $30 \div 9 = \boxed{\hspace{0.5cm}}$ remainder $\boxed{\hspace{0.5cm}}$ remainder $\boxed{\hspace{0.5cm}}$ Check $\boxed{\hspace{0.5cm}}$ Check d) $27 \div 5 = \boxed{\hspace{0.5cm}}$ e) $53 \div 6 = \boxed{\hspace{0.5cm}}$ f) $134 \div 20 = \boxed{\hspace{0.5cm}}$ remainder $\boxed{\hspace{0.5cm}}$ remainder $\boxed{\hspace{0.5cm}}$ remainder $\boxed{\hspace{0.5cm}}$ Check $\boxed{\hspace{0.5cm}}$ 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
	$E = B \times \square + R$

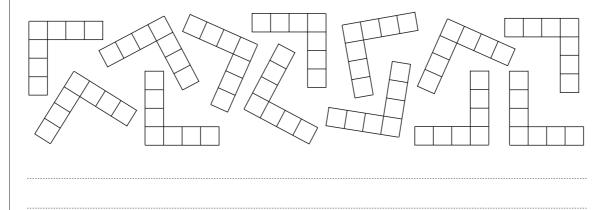
1	Write additions and subtractions about the pictures.
	a) 20 20 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	b) 50 10 2 P 5 5 5 2 2
2	Calculate the sums and differences.
_	95 + 8 = $135 + 8 =$ $102 - 5 =$ $182 - 5 =$ $94 + 7 =$ $154 + 7 =$ $104 - 8 =$ $154 - 8 =$ $96 + 9 =$ $176 + 9 =$ $103 - 6 =$ $123 - 6 =$
3	Practise calculation. a) $124 + 18 \div 3 = $ b) $180 - 36 \div 6 = $ 10 $168 + 30 + 6 = $ 110 $168 + 30 + 6 = $ 120 $168 + 30 + 6 = $ 120 $168 + 30 + 6 = $ 130 $168 + 30 + 6 = $ 145 $168 + 30 + 6 = $ 155 $168 + 30 + 6 = $ 165 $168 + 30 + 6 = $ 165 $168 + 30 + 6 = $ 165 $168 + 30 + 6 = $
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:
	Answer:

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?

c)

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)
$$3 \times 4 = \boxed{}$$

$$3 \times 40 =$$

$$30 \times 4 =$$

$$20 \times 8 =$$

$$2 \times 80 =$$

c)
$$16 \div 4 = \boxed{}$$

d)
$$14 \div 7 =$$

4

Fill in the missing numbers.

a)
$$6 \times |$$
 = 18

b)
$$\times 4 = 160$$

c)
$$20 \div \boxed{} = 5$$

$$\times 30 = 120$$

$$7 \times \boxed{} = 63$$

$$\times 9 = 180$$

$$\div 4 = 9$$

$$\times 60 = 180$$

$$\div 8 = 20$$

$$\times 7 = 0$$

$$\times 7 = 70$$

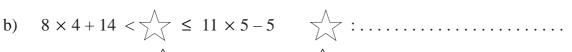
$$\div 7 = 7$$

_	
_	

List the numbers which make the inequality true.

 $70 \div 5 > \bigcirc > 200 \div 10$

1																						
٠.	•	•	٠	٠	•	٠	٠	•	•	٠	•	٠	•	•	•	•	•	•	•	•	•	٠





A 1st class stamp costs 27 p and a 2nd class stamp costs 21 p.

Complete the table. a)

Number of:



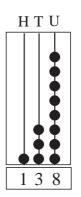


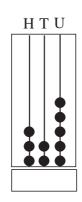
21 p stamps	1	1	2	2	2
27 p stamps	1	2	0	1	2
Total cost (p)					

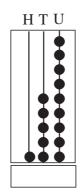
I paid exactly £1 65 p for stamps. How many 1st class and how many b) 2nd class stamps did I buy?

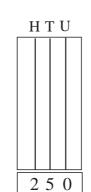
How many different results can you find? Use +, -, or \times signs.

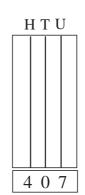
Fill in the missing numbers and complete the drawings.

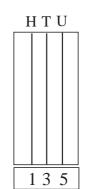






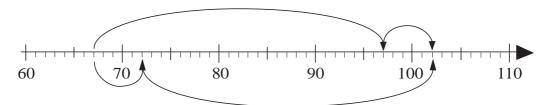




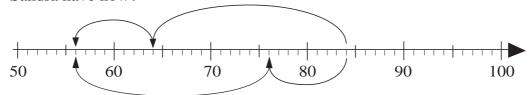


Write the calculations in two ways to match the arrows on the number lines.

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



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



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)
$$92 - 50 =$$

$$92 - 56 =$$

$$192 - 50 =$$

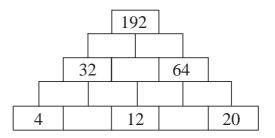
$$192 - 56 =$$

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) =
	b) 127 – (50 + 1) =
	c) 146 – (90 – 16) =
	d) $(50-7) \times 3 = $
	e) (160 + 8) ÷ 8 =
2	Calculate:
	a) $20 \times 6 =$ $20 \times (6-1) =$ $20 \times (6 \div 2) =$
	$20 \times (6+2) = $ $20 \times (6 \times 0) = $ $20 \times (6+4) = $
	b) $160 \div 8 = \boxed{ 160 \div (8 \div 2) = \boxed{ 160 \div (8-4) = } }$
	$160 \div (8-6) = 160 \div (8 \times 2) = 160 \div (8 \div 1) = $
3	Fill in the results and colour the matching sections to find the hidden number.
	$142 - 6 \times 7 = $
	$\begin{vmatrix} 8 \\ 8 \\ 7 \end{vmatrix} \qquad \begin{vmatrix} 6 \\ 5 \\ 7 \end{vmatrix} \qquad \begin{vmatrix} 8 \\ 6 \\ 7 \end{vmatrix} \qquad (120 - 40) \times 3 = \boxed{ (140 + 7) \div 7 = }$
	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
	$(20+8) \times 7 = $
4	Write 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)
	Answer:

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?

b)

1		Fill in the	e missin	g quantities.								
		1 motro	30 cm	half a metre		75 cm		500 mm				
		1 metre			400 mm		92 cm		90 cm			
2	a)			10 positive w			1 2 3					
			4									
				ay to do the c n to help you		,	6	7 8 9 10				
		• • • • • •			• • • • • • •							
3	Cont	inue the s	equence	es by writing	the next 6	terms.	What is	the rule?				
	a)	<u>1</u> 3 5										
	b)								,,			
4	Fill i	n the num	ıbers mi	ssing from th	e number	strips.						
	a)		101	117	141		173	181	205			
	b)		176 164		28 104	1 1	80		32			
	c)	121	139 148		184	202		229				
5	Cont	inue the s	equence	es and write the	ne rules.							
	a)	100, 106	5, 103,	109, 106,								
		Rule:										
	b)	150, 143	3, 157,	150, 164,								
		Dule										

Draw a *red* dot at the whole ten nearest the number given. 188 b) 140 190 130 180 200 309 ----×------ 260 310 250 300 320 List the whole numbers for which the nearest whole ten would be: a) 60 b) 100 ≈ c) Which digits can be written instead of the squares so that the nearest whole ten is 260? List all the possible 3-digit numbers. (≈ means *nearly equal to*) $\boxed{52 \approx 260}$ a) b) $\boxed{} 64 \approx 260$ $2 \square 5 \approx 260$ c) $2 \boxed{} 3 \approx 260$ d) $25 \square \approx 260$ e) $26 \square \approx 260$ f) Two different numbers can be **rounded** to 70 as the nearest whole ten. Is it possible that both numbers are less than 70? a) Is it possible that one of the numbers is 10 less than the other? b) Is it possible that one of them has 5 and the other has 0 as the units digits? c)

Is it possible that both numbers are whole tens?

d)

Fill in the missing numbers and signs. 2 List the numbers which make the statement true. 170 < +40 < 190 - 153 Write the answers as Roman numerals. CXIII - XI =b) LXXXI + IX =c) CCX + L =a) $XL \times II =$ $XLII \div VII =$ LX + XL =e) f) d) Using each of the numbers 1 to 9 once only, make an anti-magic square. The sums of the numbers along each row, column and diagonal must all be different. Write the calculation **without** brackets so that the result is the same. 147 - (50 - 6)a) 200 + (66 - 9)b) 135 - (40 - 12) =c) $(20 - 3) \times 7$ d) $(120 + 50) \div 10 =$ e) 6 Draw over the parts of the number line which can be **rounded** to the same whole ten as the number marked. Label the highest and lowest possible whole numbers.

200