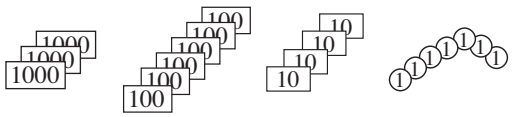
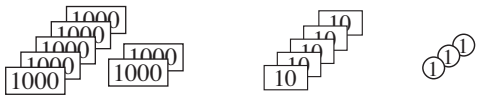
1 Write each amount in the place-value table and then in the box.

a) 

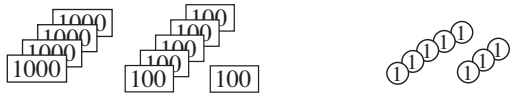
Th	H	T	U
3	6	4	7

3	6	4	7

b) 

Th	H	T	U
7	0	5	3

7	0	5	3

c) 

Th	H	T	U
4	6	0	8

4	6	0	8

2 Write these numbers with words in your exercise book.

a) i) 5032 five thousand and thirty two ii) 5302 five thousand, three hundred and two
iii) 2035 two thousand and thirty five iv) 2350 two thousand, three hundred and fifty

b) i) 1604 one thousand, six hundred and four ii) 6401 six thousand, four hundred and one
iii) 4016 four thousand and sixteen iv) 4601 four thousand, six hundred and one

3 Show each number as the sum of thousands, hundreds, tens and units.

Th	H	T	U										
1	6	3	4	=	1000	+	600	+	30	+	4
3	4	0	7	=	3000	+	400	+	0	+	7
8	0	2	5	=	8000	+	0	+	20	+	5
7	2	0	5	=	7000	+	200	+	0	+	5
8	0	0	8	=	8000	+	0	+	0	+	8
6	0	3	0	=	6000	+	0	+	30	+	0

4 Fill in the missing digits.

a) $2847 = 2 \times 1000 + 8 \times 100 + 4 \times 10 + 7 \times 1$

b) $6570 = 6 \times 1000 + 5 \times 100 + 7 \times 10 + 0 \times 1$

c) $4501 = 4 \times 1000 + 5 \times 100 + 0 \times 10 + 1 \times 1$

d) $6600 = 6 \times 1000 + 6 \times 100 + 0 \times 10 + 0 \times 1$

e) $965 = 0 \times 1000 + 9 \times 100 + 6 \times 10 + 5 \times 1$

f) $4059 = 4 \times 1000 + 0 \times 100 + 5 \times 10 + 9 \times 1$

g) $2874 = 2 \times 1000 + 8 \times 100 + 7 \times 10 + 4 \times 1$

1 Write the numbers in the place-value table.

Eight thousand, three hundred and sixty three
Nine thousand and sixty four
Two thousand, seven hundred and five
Six thousand, nine hundred and seventy
Nine hundred and sixteen
$4 \times 1000 + 3 \times 100 + 8 \times 10 + 7 \times 1$
$2 \times 1000 + 9 \times 100 + 6 \times 10$
$5 \times 1000 + 4 \times 10 + 8 \times 1$
$1 \times 1000 + 5 \times 100 + 4 \times 1$
$8000 + 300 + 40 + 2$

TTh	Th	H	T	U
	8	3	6	3
	9	0	6	4
	2	7	0	5
	6	9	7	0
		9	1	6
	4	3	8	7
	2	9	6	0
	5	0	4	8
	1	5	0	4
	8	3	4	2

2 Fill in the missing digits and place values.

a) i) 7312 = [7] Th + [3] H + [1] T + [2] U

ii) 4067 = [4] Th + [0] H + [6] T + [7] U

iii) 9304 = [9] Th + [3] H + [0] T + [4] U

b) i) 6018 = 6 [Th] + 0 [H] + 1 [T] + 8 [U]

ii) 3568 = 3 [Th] + 5 [H] + 6 [T] + 8 [U]

iii) 2605 = 2 [Th] + 6 [H] + 0 [T] + 5 [U]

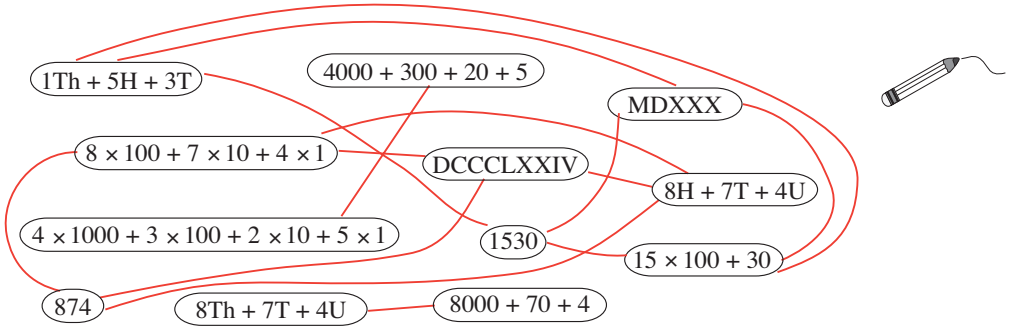
3 In your exercise book, write ten numbers:

a) in increasing order, starting at 2478 and counting up 7 at a time.
2478, 2485, 2492, 2499, 2506, 2513, 2520, 2527, 2534, 2541

b) in decreasing order, starting at 5093 and counting down 50 at a time.
5093, 5043, 4993, 4943 , 4893, 4843, 4793, 4743, 4693, 4643

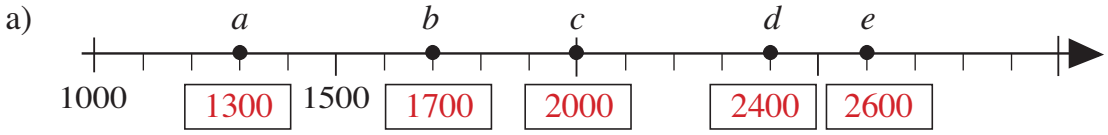
c) in increasing order, starting at 4803 and counting up 120 at a time.
4803, 4923, 5043, 5163, 5283, 5403, 5523, 5643, 5763, 5883

4 Join up the equal values.

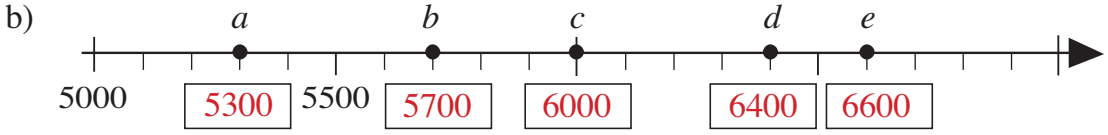


1 Which numbers do the letters stand for? Write them in the boxes.

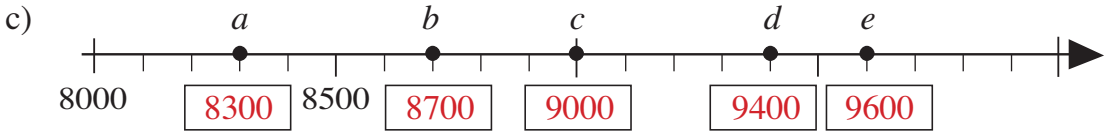
a)



b)

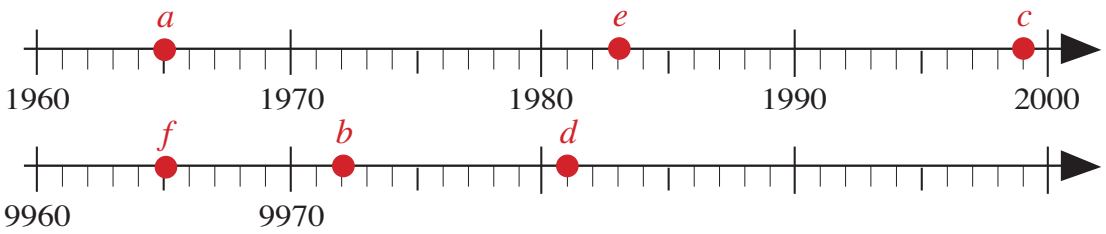


c)



2 Mark with a dot where each letter should be on the relevant number line.

$a = 1965$ $b = 9972$ $c = 1999$ $d = 9981$ $e = 1983$ $f = 9965$



3 Write the next smaller and greater whole tens, hundreds and thousands in the boxes.

4000	<	4200	<	4260	<	4263	<	4270	<	4300	<	5000
6000	<	6700	<	6720	<	6728	<	6730	<	6800	<	7000
9000	<	9800	=	9800	<	9806	<	9810	<	9900	<	10 000
7000	<	7700	<	7770	<	7777	<	7780	<	7800	<	8000
2000	<	2200	<	2220	<	2222	<	2230	<	2300	<	3000

Colour the nearest ten *red*, the nearest hundred *green* and the nearest thousand *blue*.

4 Write in the boxes the numbers described.

a) The smallest 4-digit: i) number 1000 ii) odd number 1001

b) The greatest 4-digit: i) number 9999 ii) odd number 9999

c) The greatest 4-digit number divisible by: i) 5 9995 ii) 10 9990

d) The greatest 4-digit number divisible by 100 which has the same digit in its hundreds and thousands columns. 9900

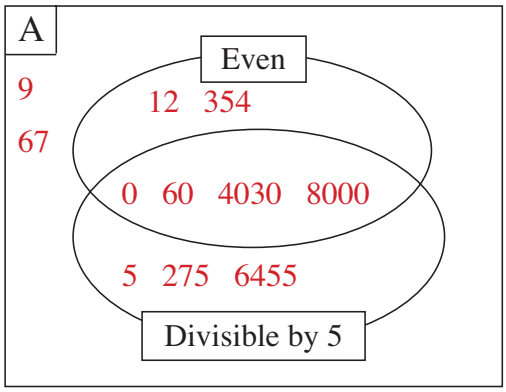
1 Write the numbers in the correct places in the set diagrams.

$$A = \{ 0,\ 5,\ 9,\ 12,\ 60,\ 67,\ 275,\ 354,\ 4030,\ 6455,\ 8000 \}$$

a)

	Divisible by 5	Not divisible by 5
Even	0 60 4030 8000	12 354
Odd	5 275 6455	9 67

b)

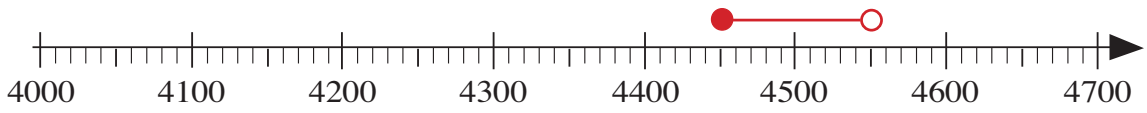


2 Round the numbers to the nearest:

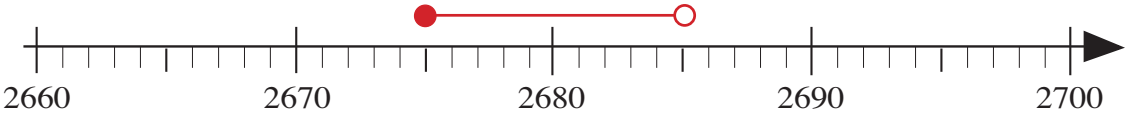
			ten		hundred		thousand
a)	2374	≈	2370	≈	2400	≈	2000
b)	8527	≈	8530	≈	8500	≈	9000
c)	6285	≈	6290	≈	6300	≈	6000
d)	3600	=	3600	=	3600	≈	4000
e)	9819	≈	9820	≈	9800	≈	10000
f)	5499	≈	5500	=	5500	≈	5000

3 Mark on the number lines those numbers which round to:

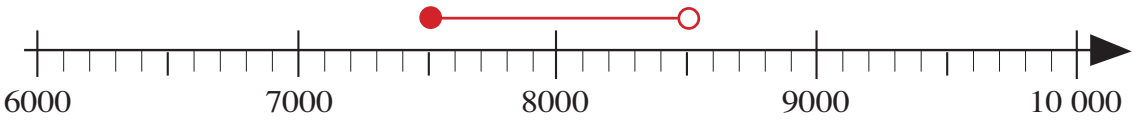
a) 4500, to the nearest hundred



b) 2680, to the nearest ten



c) 8000, to the nearest thousand.



1 Practise addition.

a) $5 + 2 = 7$ $50 + 20 = 70$ $500 + 200 = 700$ $5000 + 2000 = 7000$

b) $3 + 6 = 9$ $30 + 60 = 90$ $300 + 600 = 900$ $6000 + 3000 = 9000$

c) $8 + 2 = 10$ $80 + 20 = 100$ $800 + 200 = 1000$ $2000 + 8000 = 10000$

d) $3 + 4 = 7$ $32 + 45 = 77$ $320 + 456 = 776$ $3200 + 4500 = 7700$

2 Practise subtraction.

a) $8 - 5 = 3$ $80 - 50 = 30$ $800 - 500 = 300$ $8000 - 5000 = 3000$

b) $90 - 40 = 50$ $900 - 400 = 500$ $9000 - 4000 = 5000$ $19\,000 - 4000 = 15000$

c) $10 - 3 = 7$ $100 - 30 = 70$ $1000 - 300 = 700$ $10\,000 - 3000 = 7000$

d) $7 - 6 = 1$ $78 - 64 = 14$ $740 - 680 = 60$ $7800 - 6400 = 1400$

3 Fill in the missing numbers.

a) $30 + \boxed{40} = 70$, $300 + \boxed{400} = 700$, $3000 + \boxed{4000} = 7000$

b) $80 - \boxed{60} = 20$, $800 - \boxed{600} = 200$, $8000 - \boxed{6000} = 2000$

c) $\boxed{30} + 40 = 70$, $\boxed{300} + 400 = 700$, $\boxed{3000} + 4000 = 7000$

d) $\boxed{80} - 60 = 20$, $\boxed{800} - 600 = 200$, $\boxed{8000} - 6000 = 2000$

e) $8 + \boxed{5} = 13$, $800 + \boxed{500} = 1300$, $8000 + \boxed{5000} = 13\,000$

f) $\boxed{120} - 90 = 30$, $1200 - \boxed{300} = 900$, $\boxed{12000} - 9000 = 3000$

4 Write operations and calculate the result.

a) What is the sum of 4300 and 2800?

$4300 + 2800 = 6000 + 1100 = 7100$

b) What is the difference between 4300 and 2800?

$4300 - 2800 = 2300 - 800 = 1500$

c) One term in an addition is 1800. The sum is 5300. What is the other term?

$5300 - 1800 = 4300 - 800 = 3500$

d) What is the subtrahend if the reductant is 5300 and the difference is 1800?

$5300 - 1800 = 4300 - 800 = 3500$

1 Do the calculations. Colour the equal results in the same colour.

a) $4600 + 3900 =$ 8500

b) $4600 + 4000 - 1000 =$ 7600

c) $3900 + 4000 + 600 =$ 8500

d) $3900 + 4000 - 600 =$ 7300

e) $9700 - 1200 =$ 8500

f) $9700 - 1000 + 200 =$ 8900

g) $9700 - 2000 + 800 =$ 8500

h) $10\,000 - 1200 - 300 =$ 8500

2 Calculate the sums as simply as you can. Show your calculations in detail.

a) $360 + 4900 + 4100 + 40$
$= (360 + 40) + (4900 + 4100) = 400 + 9000 = 9400$

b) $2840 + 650 + 3050 + 160$
$= (2840 + 160) + (650 + 3050) = 3000 + 3700 = 6700$

c) $410 + 5330 + 2390 + 70$
$= (410 + 2390) + (5330 + 70) = 2800 + 5400 = 8200$

3 Do part a) in your exercise book. Use the result to help answer parts b) and c).

Ann had 7500 p. How much more did she have than:

a) Peter if Peter had 2300 p — 7500 p – 2300 p = 5200 p (= £52.00)
Ann had 5200 p (= £52.00) more than Peter.

b) John if John had 2200 p — Ann had 5300 p (= £53.00) more than John.

c) Diane if Diane had 1300 p? — Ann had 6200 p (= £62.00) more than Diane.

4 Do part a) in your exercise book. Use the result to help answer parts b) and c).

Each pupil on a school trip spent 3500 p. How much money did:

a) Finlay have left if he took 7000 p — 7000 p – 3500 p = 3500 p (= £35.00)
Finlay had 3500 p (= £35.00) left.

b) Emma have left if she took 6800 p — Emma had 3300 p (= £33.00) left.

c) Lee have left if he took 7300 p? — Lee had 3800 p (= £38.00) left.

5 Complete the **magic squares**.

The sum of any row, column or diagonal is the same.

a)

5000	2000	2000
0	3000	6000
4000	4000	1000

b)

3500	3500	2000
1500	3000	4500
4000	2500	2500

1

Estimate quickly, then calculate the sum.

a) 2653 + 1746

E: 2700 + 1700 = 4400

C:

	2	6	5	3
+	1	7	4	6
	4	3	9	9

b) 1256 + 7902

E: 1300 + 7900 = 9200

C:

	1	2	5	6
+	7	9	0	2
	9	1	5	8

c) 5343 + 2145

E: 5300 + 2100 = 7400

C:

	5	3	4	3
+	2	1	4	5
	7	4	8	8

2

Complete the additions and then check them.

a)

	7	8	5	6
+	1	5	5	2
	9	4	0	8

b)

	4	9	2	2
+	2	5	3	7
	7	4	5	9

c)

	7	3	7	6
+	4	1	7	9
1	1	5	5	5

d)

	4	0	3	6
+	3	7	8	7
	7	8	2	3

3

Estimate first then calculate the difference. Check the subtraction in two ways.

a) 8587 – 5362 ≈ 8600 – 5400 = 3200

C:

	8	5	8	7
–	5	3	6	2
	3	2	2	5

Check:

	8	5	8	7
–	3	2	2	5
	5	3	6	2

	3	2	2	5
+	5	3	6	2
	8	5	8	7

b) 4567 – 1572 ≈ 4600 – 1600 = 3000

C:

	4	5	6	7
–	1	5	7	2
	2	9	9	5

Check:

	4	5	6	7
–	2	9	9	5
	1	5	7	2

	2	9	9	5
+	1	5	7	2
	4	5	6	7

4

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

a)

	10000	
5400		4600
3600	1800	2800

b)

	7800	
4400		3400
1600	2800	600

c)

	13330	
7400		5900
4900	2500	3400

1 Do the operations in the correct order.

Calculations

a) i) $8152 - 3728 + 1596 =$ 6020

ii) $(8152 - 3728) + 1596 =$ 6020

iii) $8152 - (3728 + 1596) =$ 2828

b) i) $7020 - 3158 - 1976 =$ 1886

ii) $(7020 - 3158) - 1976 =$ 1886

iii) $7020 - (3158 - 1976) =$ 5838

2 Fill in the missing numbers.

a)

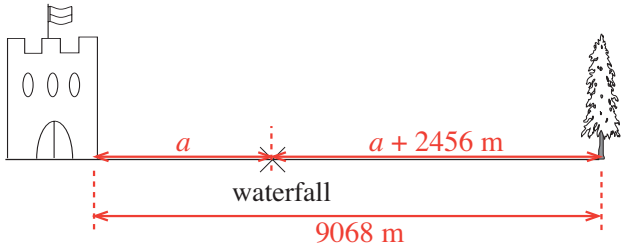
3600	+	1800	=	5400
+		+		+
1900	+	2600	=	4500
=		=		=
5500	+	4400	=	9900

b)

12 500	–	3500	=	9000
–		–		–
7200	–	1800	=	5400
=		=		=
5300	–	1700	=	3600

3 Solve the problem.

The castle is 9 km 68 m from the forest. There is a waterfall between the castle and the forest. It is 2 km 456 m nearer to the castle than to the forest.



How far away is the waterfall from the castle?

$a = (9068\text{ m} - 2456\text{ m}) \div 2 = 6612\text{ m} \div 2 = 3306\text{ m}$

The waterfall is 3306 m from the castle.

4 Write a plan, do the calculation and write the answer in your exercise book.

a) In *Appletown*, the number of inhabitants is 6548. The number of females is 3308. How many males live there? 3240 males live in Appletown.

b) In *Bananaville*, there are 5476 females, 260 more than the number of males. How many males live there? 5216 males live in Bananaville.

c) There are 9500 inhabitants in *Dombleland*, 2500 more adults than children. How many adults and how many children live there?
6000 adults and 3500 children live in Dombleland.

1 Write the products.

a)	$3 \times 6 = 18$	$30 \times 6 = 180$	$3 \times 60 = 180$	$30 \times 60 = 1800$
b)	$8 \times 4 = 32$	$80 \times 4 = 320$	$800 \times 4 = 3200$	$80 \times 40 = 3200$
c)	$9 \times 3 = 27$	$90 \times 3 = 270$	$9 \times 300 = 2700$	$90 \times 30 = 2700$
d)	$8 \times 7 = 56$	$80 \times 7 = 560$	$8 \times 70 = 560$	$800 \times 7 = 5600$
e)	$6 \times 7 = 42$	$60 \times 7 = 420$	$600 \times 7 = 4200$	$6 \times 700 = 4200$
f)	$9 \times 9 = 81$	$90 \times 9 = 810$	$900 \times 9 = 8100$	$90 \times 90 = 8100$

2 Fill in the missing numbers.

a)	$8 \times \boxed{3} = 24$	$8 \times \boxed{30} = 240$	$8 \times \boxed{300} = 2400$
b)	$5 \times \boxed{9} = 45$	$5 \times \boxed{90} = 450$	$5 \times \boxed{900} = 4500$
c)	$6 \times \boxed{5} = 30$	$6 \times \boxed{50} = 300$	$6 \times \boxed{500} = 3000$
d)	$9 \times \boxed{4} = 36$	$9 \times \boxed{40} = 360$	$90 \times \boxed{40} = 3600$
e)	$4 \times \boxed{7} = 28$	$40 \times \boxed{7} = 280$	$40 \times \boxed{70} = 2800$
f)	$6 \times \boxed{9} = 54$	$60 \times \boxed{9} = 540$	$60 \times \boxed{90} = 5400$

3 Write the products.

a)	$3 \times 4 = 12$	$30 \times 4 = 120$	$300 \times 4 = 1200$
	$13 \times 4 = 52$	$130 \times 4 = 520$	$1300 \times 4 = 5200$
	$43 \times 4 = 172$	$430 \times 4 = 1720$	$4300 \times 4 = 17200$
b)	$9 \times 2 = 18$	$90 \times 2 = 180$	$900 \times 2 = 1800$
	$19 \times 2 = 38$	$190 \times 2 = 380$	$1900 \times 2 = 3800$
	$89 \times 2 = 178$	$890 \times 2 = 1780$	$8900 \times 2 = 17800$

4 Fill in the missing numbers.

a)	$36 \div 6 = 6$	$360 \div 6 = 60$	$3600 \div 60 = 60$	$3600 \div 6 = 600$
b)	$72 \div 8 = 9$	$720 \div 8 = 90$	$7200 \div 80 = 90$	$7200 \div 8 = 900$
c)	$45 \div 5 = 9$	$450 \div 5 = 90$	$4500 \div 50 = 90$	$4500 \div 5 = 900$
d)	$24 \div \boxed{8} = 3$,	$240 \div \boxed{80} = 3$,	$240 \div \boxed{8} = 30$,	$2400 \div \boxed{80} = 30$
e)	$35 \div \boxed{7} = 5$,	$350 \div \boxed{70} = 5$,	$350 \div \boxed{7} = 50$,	$3500 \div \boxed{70} = 50$
f)	$24 \div \boxed{4} = 6$,	$240 \div \boxed{40} = 6$,	$240 \div \boxed{4} = 60$,	$2400 \div \boxed{40} = 60$

1

Fill in the missing numbers.

a)

	Th	H	T	U
	3	2	5	1
	3	2	5	1
+	3	2	5	1
	9	7	5	3

Th	H	T	U		
3	2	5	1	×	3
9	7	5	3		

3 × 1U = [3] U

3 × 5T = [15] T = [1] H + [5] T

3 × 2H + [1] H = [7] H

3 × 3Th = [9] Th

b)

	Th	H	T	U
	1	7	5	6
	1	7	5	6
+	1	7	5	6
	1	7	5	6
	7	0	2	4

Th	H	T	U		
1	7	5	6	×	4
7	0	2	4		

4 × 6U = [24] U = [2] T + [4] U

4 × 5T + [2] T = [22] T = [2] H + [2] T

4 × 7H + [2] H = [30] H = [3] Th + [0] H

4 × 1Th + [3] Th = [7] Th

2

Estimate first, then calculate with addition and with multiplication.

a) *E:* 2600 x 4 = 10400

$$\begin{array}{r} 2\,6\,4\,7 \\ 2\,6\,4\,7 \\ 2\,6\,4\,7 \\ +\ 2\,6\,4\,7 \\ \hline 1\,0\,5\,8\,8 \end{array} \qquad \begin{array}{r} 2\,6\,4\,7 \times 4 \\ \hline 1\,0\,5\,8\,8 \end{array}$$

b) *E:* 1700 x 6 = 10200

$$\begin{array}{r} 1\,6\,7\,8 \\ 1\,6\,7\,8 \\ 1\,6\,7\,8 \\ 1\,6\,7\,8 \\ 1\,6\,7\,8 \\ +\ 1\,6\,7\,8 \\ \hline 1\,0\,0\,6\,8 \end{array} \qquad \begin{array}{r} 1\,6\,7\,8 \times 6 \\ \hline 1\,0\,0\,6\,8 \end{array}$$

3

Which is more? How many more? Write in the missing signs and differences.

a) 6 times 1480 (=) 3 times 2960

[0]

b) 9 times 875 (>) 5 times 1420

[775]

c) 4 times 3100 (<) 7 times 1800

[200]

d) 8 times 734 (>) 2 times 2931

[10]

4

[2] [3] [4] [5] [6]

Write these digits in the boxes so that the product is less than 10 000 and it is

E.g:

a) odd

[2][6][4][5] × [3]

7 9 3 5

b) even

[2][4][5][6] × [3]

7 3 6 8

c) a 4-digit number

[4][6][5][3] × [2]

9 3 0 6

1

Fill in the missing numbers.

a)

$8 \times \boxed{6} = 48$	$80 \times \boxed{6} = 480$	$800 \times \boxed{6} = 4800$
$4 \times \boxed{12} = 48$	$40 \times \boxed{12} = 480$	$400 \times \boxed{12} = 4800$
$16 \times \boxed{3} = 48$	$160 \times \boxed{3} = 480$	$1600 \times \boxed{3} = 4800$

b)

$36 \div \boxed{9} = 4$	$3600 \div \boxed{900} = 4$	$\boxed{3600} \div 9 = 400$
$360 \div \boxed{90} = 4$	$3600 \div \boxed{90} = 40$	$\boxed{3600} \div 90 = 40$
$360 \div \boxed{9} = 40$	$3600 \div \boxed{9} = 400$	$\boxed{3600} \div 900 = 4$

2

Divide 7640 into 3 equal parts. Fill in the missing items.

Calculation:

	Th	H	T	U	
	2	5	4	6	r 2
3	7	6	4	0	
−	6				
	1	6			
−	1	5			
		1	4		
	−	1	2		
			2	0	
		−	1	8	
				2	

E: $6000 < 7640 < 9000$

$\boxed{2000} <$ quotient $< \boxed{3000}$

Details:

7 Th ÷ 3 = $\boxed{2}$ Th, because $\boxed{2}$ Th × 3 = $\boxed{6}$ Th, and $\boxed{1}$ Th remains.

1 Th + 6 H = 16H; 16H ÷ 3 = $\boxed{5}$ H, because $\boxed{5}$ H × 3 = $\boxed{15}$ H, and $\boxed{1}$ H remains.

1H + 4T = 14T; 14T ÷ 3 = $\boxed{4}$ T, because $\boxed{4}$ T × 3 = $\boxed{12}$ T, and $\boxed{2}$ T remains.

2T + 0U = 20 U, 20 U ÷ 3 = $\boxed{6}$ U, because $\boxed{6}$ U × 3 = $\boxed{18}$ U, and $\boxed{2}$ U remains.

3

Do the divisions and check them with multiplication.

a)

	Th	H	T	U	
	1	2	3	1	r 2
5	6	1	5	7	
−	5				← 1 Th × 5
	1	1			
−	1	0			← 2 H × 5
		1	5		
	−	1	5		← 3 T × 5
			0	7	
		−		5	← 1 U × 5
				2	

Ch:

					×	5
	6	1	5	5		
			+	2		
6	1	5	7			

b)

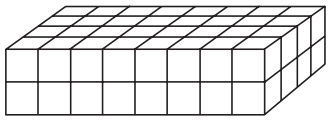
	Th	H	T	U	
		9	1	8	r 4
8	7	3	4	8	
−	7	2			← 9 H × 8
		1	4		
	−		8		← 1 T × 8
			6	8	
		−	6	4	← 8 U × 8
				4	

Ch:

					×	8
	7	3	4	4		
			+	4		
7	3	4	8			

1 How many unit cubes have been used to build the cuboids?
Calculate the volume in 3 different ways.

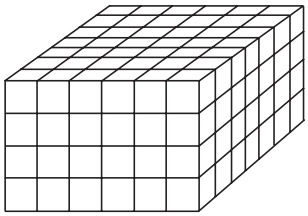
E.g:

a) 

V = $8 \times 2 \times 4 = 64$ units

V = $8 \times 4 \times 2 = 64$ units

V = $4 \times 2 \times 8 = 64$ units

b) 

V = $6 \times 7 \times 4 = 168$ units

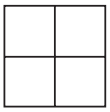
V = $6 \times 4 \times 7 = 168$ units

V = $7 \times 4 \times 6 = 168$ units

2 Fill in the missing numbers.

a) $1256 \times 6 = 1256 \times 5 +$ [1256]

b) $2432 \times 3 = 2433 \times 3 -$ [3]

3 

a) How many squares can you count in this diagram? ... 5 ...

b) How many squares could you count in

i) 675 of these diagrams ... 3375 ...

ii) 1060 of these diagrams? ... 5300 ...

4 Solve the problems in your exercise book.

a) 964 soldiers are on parade. They are marching in rows of 6.

i) How many rows are there? There are 161 rows.

ii) Does the last row contain fewer soldiers than the other rows?
One of the rows contains 2 fewer soldiers

b) What would your answers be if the soldiers were marching in a rows of 8?
There would be 120 rows of 8 and one row of 4 soldiers = 121 rows.

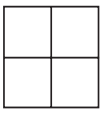
5 Fill in the missing numbers.

a) 9360 $\xrightarrow{\div 2}$ [4680] $\xrightarrow{\div 3}$ [1560] $\xrightarrow{\div 4}$ [390] $\xrightarrow{\div 5}$ [78] $\xrightarrow{\div 6}$ [13]

b) 9360 $\xrightarrow{\div 4}$ [2340] $\xrightarrow{\div 5}$ [468] $\xrightarrow{\div 2}$ [234] $\xrightarrow{\div 6}$ [39] $\xrightarrow{\div 3}$ [13]

c) 9360 $\xrightarrow{\div 3}$ [3120] $\xrightarrow{\div 6}$ [520] $\xrightarrow{\div 5}$ [104] $\xrightarrow{\div 4}$ [26] $\xrightarrow{\div 2}$ [13]

1



a) How many rectangles are in this diagram? 9

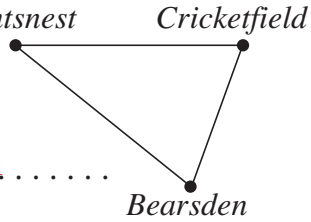
b) How many rectangles would be in 874 such diagrams? 7866

c) What is the **area** of the diagram? A = 4 square units

d) What is the **perimeter** of the diagram? P = 8 units

2

Scale: 1 cm on the diagram → 875 m in real life



a) How far away in real life is:

i) *Bearsden* from *Antsnest*? 2625 m

ii) *Cricketfield* from *Antsnest*? 2625 m

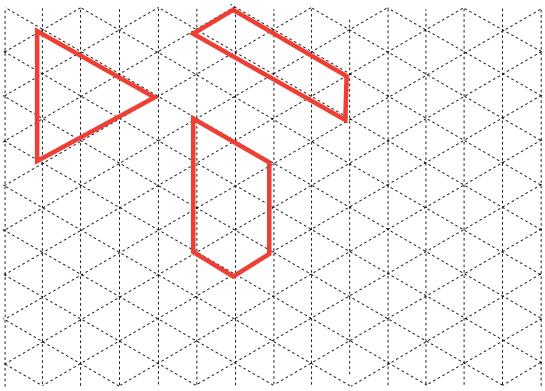
b) What distance in real life is the round trip? 7000 m

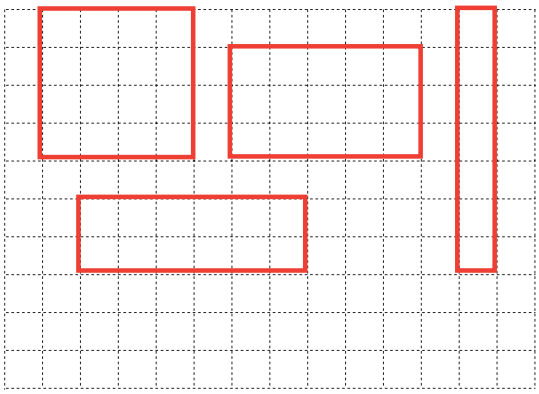
3

a) Draw 9-unit perimeters which enclose a triangle, a quadrilateral and a pentagon.

b) Draw 16-unit perimeters which enclose different rectangles.

E.g:

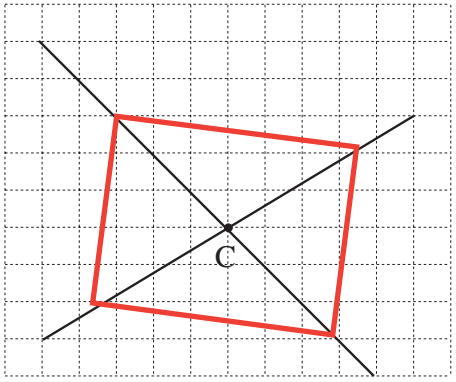




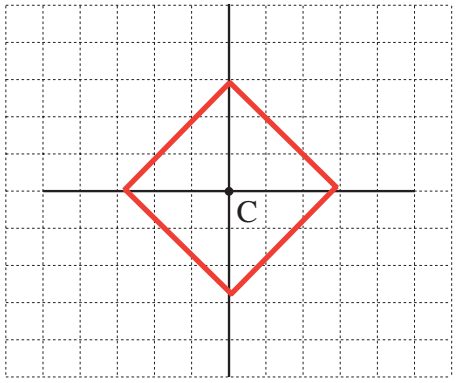
4

Measure 2 cm from point C on the lines. Join up the points.

a)



b)



What shapes have you made? Have made rectangles. In b) the shape is also a square.

1

In your exercise book, make a plan, estimate, calculate, check and write the answer as a sentence.

a) The highest mountain in Europe is *Mont Blanc* which is 4810 m high. It is 4032 m lower than *Mount Everest*. How high is *Mount Everest*?

Mount Everest is 8842 m high.

b) The *River Danube* is 2850 km long and the *River Nile* is 6670 km long. How much longer is the *River Nile* than the *River Danube*?

The River Nile is 3820 m longer than the River Danube.

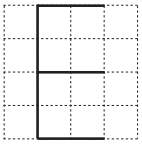
c) The deepest point in the Pacific Ocean is near Japan and is 10 680 m below sea level. The highest point in Japan is 3776 m above sea level.

What is the difference between these two points?

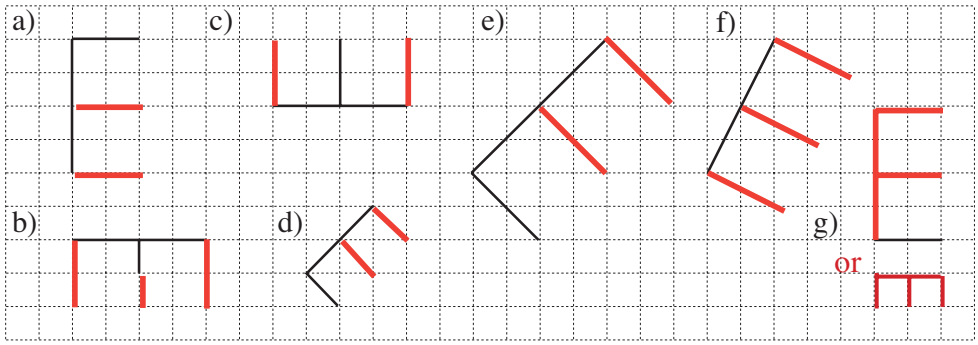
The difference between the two points is 14 km 456 m.

2

Mark the **parallel** and **perpendicular** lines on this capital E.

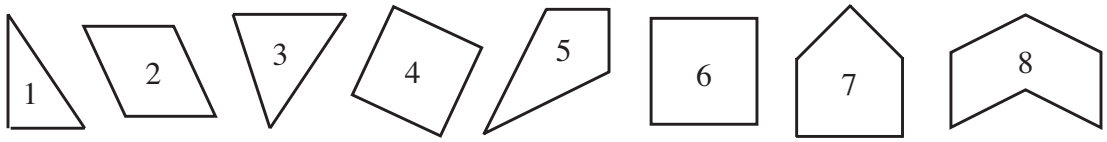


We started to draw the letter E on this grid in different positions and sizes. Complete the drawings.



3

List the polygons for which each statement is true.



a) It has a right angle. 1, 4, 5, 6, 7

b) Every angle is a right angle. 4, 6

c) It has no right angles. 2, 3, 8

d) It has an angle which is not a right angle. 1, 2, 3, 5, 7, 8

e) Every angle is a right angle but it is not a rectangle. None

4

The minute hand on the clock is pointing to 12 o'clock.

Through how many right angles will it turn after

a) 15 minutes 1 b) 30 minutes 2 c) 45 minutes? 3

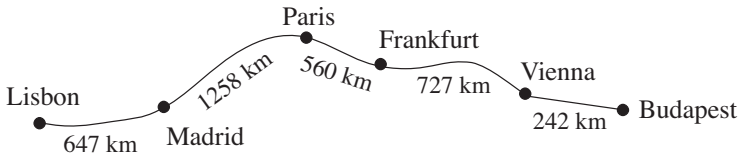
1 In your exercise book, make a plan, estimate, calculate, check and write the answer as a sentence.

a) The distance between *Budapest* (Hungary) and *London* (UK) is 1450 km. It is 5950 km less than the distance between *Washington* (USA) and *Budapest*.

How far is *Washington* from *Budapest?*

Washington is 7400 km from Budapest.

b) A tourist drew this rough map of where he had travelled.



i) How far did he travel from *Lisbon* to *Budapest*?

He travelled 3434 km.

ii) Which part of his route was longer, *Lisbon* to *Paris* or *Paris* to *Budapest*?

Lisbon to Paris was the longer part.

2 In a dress pattern, there are these different shapes of pocket to choose from.

List the shapes for which each statement is true.

a) It has only straight sides. A, B, D, F, G, H, J, L

b) It has at least one straight side. A, B, C, D, E, F, G, H, J, K, L

c) It has only curved lines. I

d) It is a pentagon. D, J

e) It has parallel sides. A, B, D, F, H, J, L

f) It has perpendicular sides. B, D, E, F, H, J, L

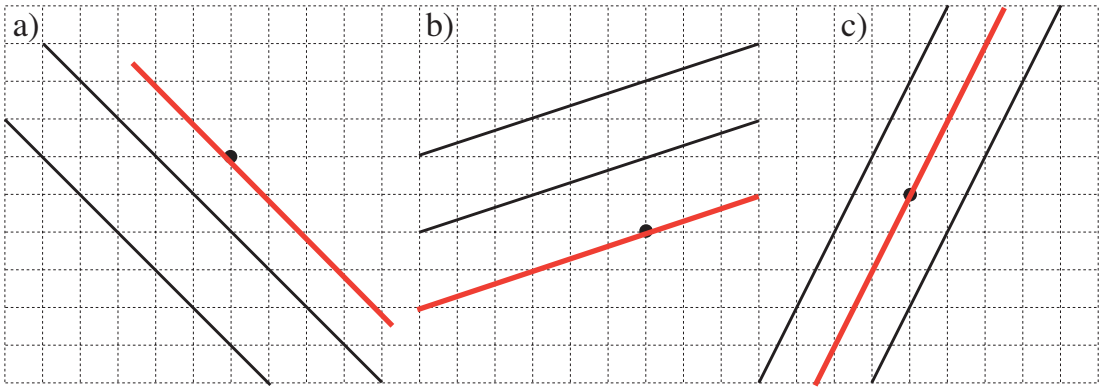
g) It is a quadrilateral. A, B, F, G, L

h) It is a hexagon. H

i) It is a rectangle. F, L

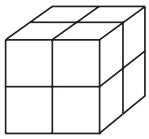
j) It is a square L

3 Draw a line through the point given so that it is parallel to the other two lines.



1

Do the calculations for b) and c) in your exercise book.



a) How many unit cubes does this cube contain? ...8...

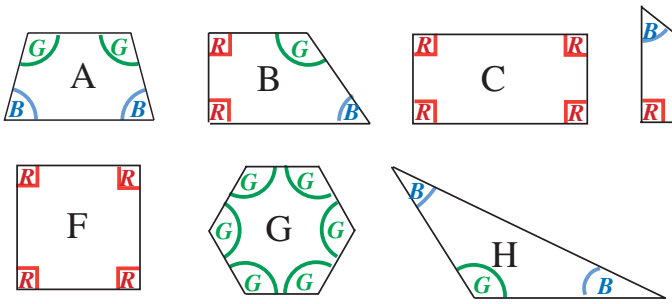
b) How many unit cubes would 1176 of these cubes contain? 9408

c) How many of these large cubes could be built from 9648 unit cubes? 1206

2

a) In each diagram, mark

- right angles in *red* like this, 
- angles **smaller** than a right angle in *blue* like this, 
- angles **larger** than a right angle in *green* like this. 



b) List the letters of the shapes for which each statement is true.

i) It is a square. F

ii) It is a rectangle. C, F

iii) It is a quadrilateral. A, B, C, F

iv) It is a triangle. D, E, H

v) It has at least one right angle. B, C, D, F

vi) Every angle is a right angle. C, F

vii) It has at least one angle smaller than a right angle. A, B, D, E, H

viii) All its angles are smaller than a right angle. E

ix) It has at least one angle larger than a right angle. A, B, G, H

x) All its angles are larger than a right angle. G

3

Two sides of a quadrilateral have been drawn. Complete the shape so that:

a) it has at least one right angle
E.g:

b) 2 of its sides are parallel
E.g:

c) it has 2 pairs of parallel sides.