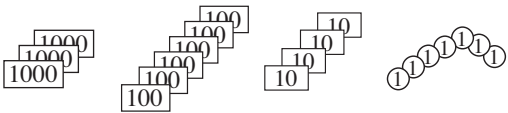


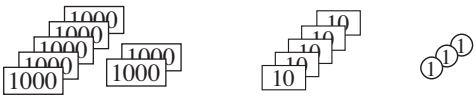
1

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

a) 

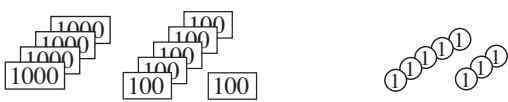
Th	H	T	U
3	6	4	7

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	=	<table border="1"><tr><td>1</td><td>0</td><td>0</td><td>0</td></tr></table>	1	0	0	0	+	<table border="1"><tr><td>6</td><td>0</td><td>0</td><td></td></tr></table>	6	0	0		+	<table border="1"><tr><td>3</td><td>0</td><td></td><td></td></tr></table>	3	0			+	<table border="1"><tr><td>4</td><td></td><td></td><td></td></tr></table>	4			
1	0	0	0																								
6	0	0																									
3	0																										
4																											
3	4	0	7	=	<table border="1"><tr><td>3</td><td>0</td><td>0</td><td>0</td></tr></table>	3	0	0	0	+	<table border="1"><tr><td>4</td><td>0</td><td>0</td><td></td></tr></table>	4	0	0		+	<table border="1"><tr><td></td><td></td><td>0</td><td></td></tr></table>			0		+	<table border="1"><tr><td>7</td><td></td><td></td><td></td></tr></table>	7			
3	0	0	0																								
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7																											
8	0	2	5	=	<table border="1"><tr><td>8</td><td>0</td><td>0</td><td>0</td></tr></table>	8	0	0	0	+	<table border="1"><tr><td></td><td></td><td>0</td><td></td></tr></table>			0		+	<table border="1"><tr><td>2</td><td>0</td><td></td><td></td></tr></table>	2	0			+	<table border="1"><tr><td>5</td><td></td><td></td><td></td></tr></table>	5			
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		0																									
2	0																										
5																											
7	2	0	5	=	<table border="1"><tr><td>7</td><td>0</td><td>0</td><td>0</td></tr></table>	7	0	0	0	+	<table border="1"><tr><td>2</td><td>0</td><td>0</td><td></td></tr></table>	2	0	0		+	<table border="1"><tr><td></td><td></td><td>0</td><td></td></tr></table>			0		+	<table border="1"><tr><td>5</td><td></td><td></td><td></td></tr></table>	5			
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8																											
6	0	3	0	=	<table border="1"><tr><td>6</td><td>0</td><td>0</td><td>0</td></tr></table>	6	0	0	0	+	<table border="1"><tr><td></td><td></td><td>0</td><td></td></tr></table>			0		+	<table border="1"><tr><td>3</td><td>0</td><td></td><td></td></tr></table>	3	0			+	<table border="1"><tr><td>0</td><td></td><td></td><td></td></tr></table>	0			
6	0	0	0																								
		0																									
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4

Fill in the missing digits.

- a) $2847 = \boxed{2} \times 1000 + \boxed{8} \times 100 + \boxed{4} \times 10 + \boxed{7} \times 1$
- b) $6570 = \boxed{6} \times 1000 + \boxed{5} \times 100 + \boxed{7} \times 10 + \boxed{0} \times 1$
- c) $4501 = \boxed{4} \times 1000 + \boxed{5} \times 100 + \boxed{0} \times 10 + \boxed{1} \times 1$
- d) $6600 = \boxed{6} \times 1000 + \boxed{6} \times 100 + \boxed{0} \times 10 + \boxed{0} \times 1$
- e) $965 = \boxed{0} \times 1000 + \boxed{9} \times 100 + \boxed{6} \times 10 + \boxed{5} \times 1$
- f) $4059 = \boxed{4} \times 1000 + \boxed{0} \times 100 + \boxed{5} \times 10 + \boxed{9} \times 1$
- g) $2874 = \boxed{2} \times 1000 + \boxed{8} \times 100 + \boxed{7} \times 10 + \boxed{4} \times 1$

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) $7312 = 7 \text{ Th} + 3 \text{ H} + 1 \text{ T} + 2 \text{ U}$

ii) $4067 = 4 \text{ Th} + 0 \text{ H} + 6 \text{ T} + 7 \text{ U}$

iii) $9304 = 9 \text{ Th} + 3 \text{ H} + 0 \text{ T} + 4 \text{ U}$

b) i) $6018 = 6 \text{ Th} + 0 \text{ H} + 1 \text{ T} + 8 \text{ U}$

ii) $3568 = 3 \text{ Th} + 5 \text{ H} + 6 \text{ T} + 8 \text{ U}$

iii) $2605 = 2 \text{ Th} + 6 \text{ H} + 0 \text{ T} + 5 \text{ U}$

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.

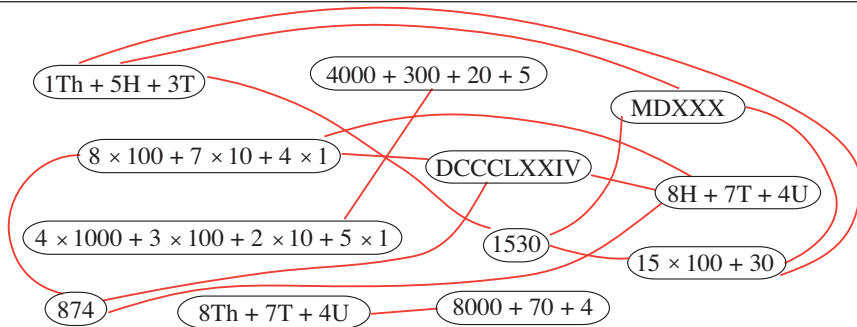
5093, 5043, 4993, 4943, 4893, 4843, 4793, 4743, 4693, 4643

c) in increasing order, starting at 4803 and counting up 120 at a time.

4803, 4923, 5043, 5163, 5283, 5403, 5523, 5643, 5763, 5883

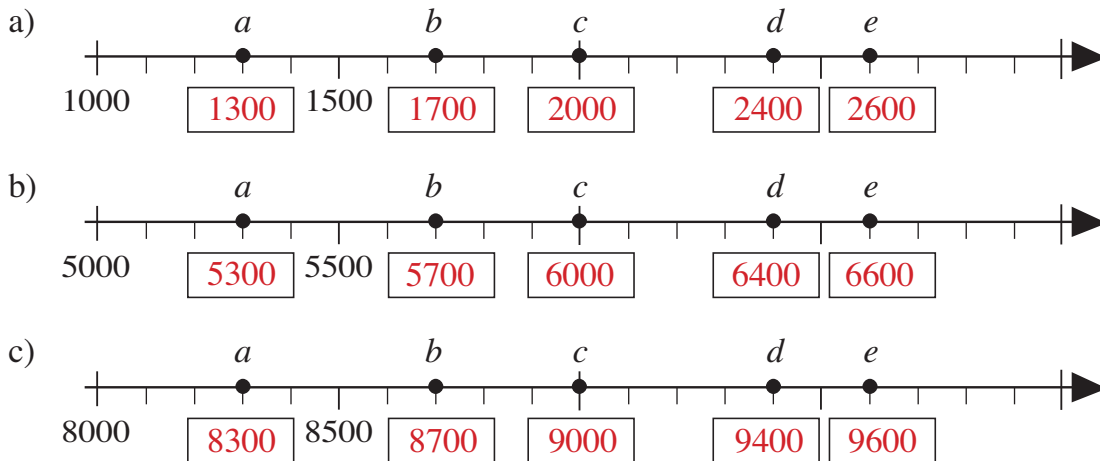
4

Join up the equal values.



1

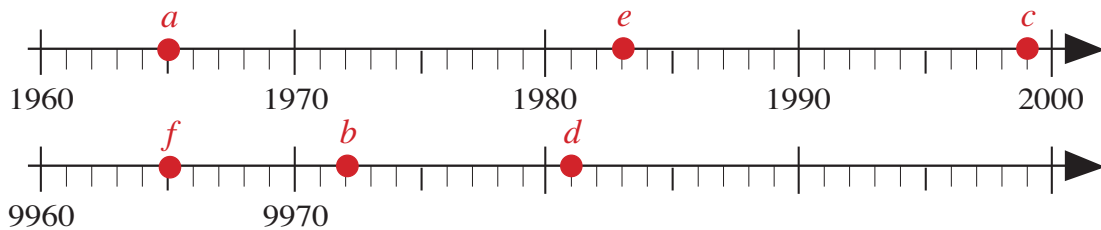
Which numbers do the letters stand for? Write them in the boxes.



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.



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

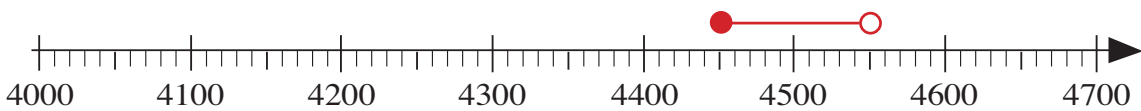
Round the numbers to the nearest:

	ten		hundred		thousand													
a) 2374	≈ <table border="1"><tr><td>2</td><td>3</td><td>7</td><td>0</td></tr></table>	2	3	7	0	≈	<table border="1"><tr><td>2</td><td>4</td><td>0</td><td>0</td></tr></table>	2	4	0	0	≈	<table border="1"><tr><td>2</td><td>0</td><td>0</td><td>0</td></tr></table>	2	0	0	0	
2	3	7	0															
2	4	0	0															
2	0	0	0															
b) 8527	≈ <table border="1"><tr><td>8</td><td>5</td><td>3</td><td>0</td></tr></table>	8	5	3	0	≈	<table border="1"><tr><td>8</td><td>5</td><td>0</td><td>0</td></tr></table>	8	5	0	0	≈	<table border="1"><tr><td>9</td><td>0</td><td>0</td><td>0</td></tr></table>	9	0	0	0	
8	5	3	0															
8	5	0	0															
9	0	0	0															
c) 6285	≈ <table border="1"><tr><td>6</td><td>2</td><td>9</td><td>0</td></tr></table>	6	2	9	0	≈	<table border="1"><tr><td>6</td><td>3</td><td>0</td><td>0</td></tr></table>	6	3	0	0	≈	<table border="1"><tr><td>6</td><td>0</td><td>0</td><td>0</td></tr></table>	6	0	0	0	
6	2	9	0															
6	3	0	0															
6	0	0	0															
d) 3600	= <table border="1"><tr><td>3</td><td>6</td><td>0</td><td>0</td></tr></table>	3	6	0	0	=	<table border="1"><tr><td>3</td><td>6</td><td>0</td><td>0</td></tr></table>	3	6	0	0	≈	<table border="1"><tr><td>4</td><td>0</td><td>0</td><td>0</td></tr></table>	4	0	0	0	
3	6	0	0															
3	6	0	0															
4	0	0	0															
e) 9819	≈ <table border="1"><tr><td>9</td><td>8</td><td>2</td><td>0</td></tr></table>	9	8	2	0	≈	<table border="1"><tr><td>9</td><td>8</td><td>0</td><td>0</td></tr></table>	9	8	0	0	≈	<table border="1"><tr><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></table>	1	0	0	0	0
9	8	2	0															
9	8	0	0															
1	0	0	0	0														
f) 5499	≈ <table border="1"><tr><td>5</td><td>5</td><td>0</td><td>0</td></tr></table>	5	5	0	0	=	<table border="1"><tr><td>5</td><td>5</td><td>0</td><td>0</td></tr></table>	5	5	0	0	≈	<table border="1"><tr><td>5</td><td>0</td><td>0</td><td>0</td></tr></table>	5	0	0	0	
5	5	0	0															
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5	0	0	0															

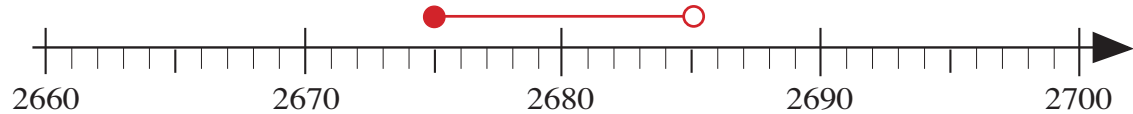
3

Mark on the number lines those numbers which round to:

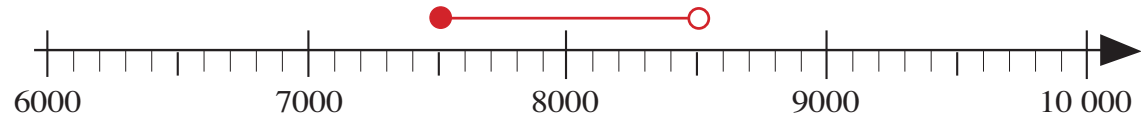
a) 4500, to the nearest hundred



b) 2680, to the nearest ten



c) 8000, to the nearest thousand.



1

Fill in the missing numbers.

a) $6475 = 6000 + \boxed{400} + 75$

b) $27 \text{ H} = 2000 + \boxed{700}$

c) $3297 = 3000 + 200 + \boxed{90} + 7$

d) $1345 + \boxed{655} = 2000$

e) $2910 + 1000 = \boxed{4910} - 1000$

f) $4290 - 500 = \boxed{3290} + 500$

2

The distance travelled by a plane from New York to London is 5586 km.

What is this distance rounded to the nearest:

a) 10 km

b) 100 km

c) 1000 km?

5590 km**5600 km****6000 km****3**

Which is more and by how much?

Fill in the missing signs and differences.

a) $3012 \times 2 \boxed{>} 2998 \times 2$

b) $2678 + 10 \boxed{<} 2691$

28**3**

c) $4799 + 30 \boxed{>} 4820 - 30$

d) $7001 - 5 \boxed{>} 6896 + 10$

39**90**

e) $2323 + 124 \boxed{>} 2423$

f) $5650 \boxed{>} 5750 - 101$

24**1****4**

Write a plan and do the calculation in your exercise book. Write the answer here.

a) The difference between two numbers is 2790.

The smaller number is 3560. What is the other number?

6350

b) The difference between two numbers is 2790.

The larger number is 3560. What is the other number?

770**5**

a) Write these numbers in increasing order.

3601, 3016, 3106, 3061, 3610 ... **3016, 3061, 3106, 3601, 3610**

b) Write these numbers in decreasing order.

2999, 2099, 3001, 2909, 3010, 2990, 3100, 2090

... **3100, 3010, 3001, 2999, 2990, 2909, 2099, 2090**

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?
 $\dots 4300 + 2800 = 6000 + 1100 = 7100 \dots$
- b) What is the difference between 4300 and 2800?
 $\dots 4300 - 2800 = 2300 - 800 = 1500 \dots$
- c) One term in an addition is 1800. The sum is 5300. What is the other term?
 $\dots 5300 - 1800 = 4300 - 800 = 3500 \dots$
- d) What is the subtrahend if the reductant is 5300 and the difference is 1800?
 $\dots 5300 - 1800 = 4300 - 800 = 3500 \dots$

1

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

- a) $4600 + 3900 = 8500$ e) $9700 - 1200 = 8500$
- b) $4600 + 4000 - 1000 = 7600$ f) $9700 - 1000 + 200 = 8900$
- c) $3900 + 4000 + 600 = 8500$ g) $9700 - 2000 + 800 = 8500$
- d) $3900 + 4000 - 600 = 7300$ 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 $7500\text{ p} - 2300\text{ p} = 5200\text{ p} (= £52.00) \dots$
 Ann had 5200 p (= £52.00) more than Peter.
- b) John if John had 2200 p $7500\text{ p} - 2200\text{ p} = 5300\text{ p} (= £53.00)$
 Ann had 5300 p (= £53.00) more than John.
- c) Diane if Diane had 1300 p? $7500\text{ p} - 1300\text{ p} = 6200\text{ p} (= £62.00)$
 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 $7000\text{ p} - 3500\text{ p} = 3500\text{ p} (= £35.00)$
 Finlay had 3500 p (= £35.00) left.
- b) Emma have left if she took 6800 p $7000\text{ p} - 6800\text{ p} = 200\text{ p} (= £2.00)$
 Emma had 200 p (= £2.00) left.
- c) Lee have left if he took 7300 p? $7000\text{ p} - 7300\text{ p} = -300\text{ p} (= £3.00)$
 Lee had 300 p (= £3.00) left.

5Complete the **magic squares**. a)

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

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:
$$\begin{array}{r} 2653 \\ + 1746 \\ \hline 4399 \end{array}$$

b) $1256 + 7902$

E: $1300 + 7900 = 9200$

C:
$$\begin{array}{r} 1256 \\ + 7902 \\ \hline 9158 \end{array}$$

c) $5343 + 2145$

E: $5300 + 2100 = 7400$

C:
$$\begin{array}{r} 5343 \\ + 2145 \\ \hline 7488 \end{array}$$

2

Complete the additions and then check them.

a)

$$\begin{array}{r} 7856 \\ + 1552 \\ \hline 9408 \end{array}$$

b)

$$\begin{array}{r} 4922 \\ + 2537 \\ \hline 7459 \end{array}$$

c)

$$\begin{array}{r} 7376 \\ + 4179 \\ \hline 11555 \end{array}$$

d)

$$\begin{array}{r} 4036 \\ + 3787 \\ \hline 7823 \end{array}$$

3

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

a) $8587 - 5362 \approx 8600 - 5400 = 3200$

C:
$$\begin{array}{r} 8587 \\ - 5362 \\ \hline 3225 \end{array}$$

Check:

$$\begin{array}{r} 8587 \\ - 3225 \\ \hline 5362 \end{array}$$

$$\begin{array}{r} 3225 \\ + 5362 \\ \hline 8587 \end{array}$$

b) $4567 - 1572 \approx 4600 - 1600 = 3000$

C:
$$\begin{array}{r} 4567 \\ - 1572 \\ \hline 2995 \end{array}$$

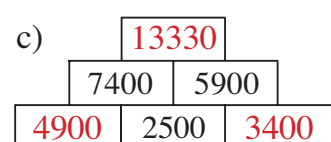
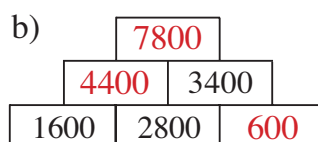
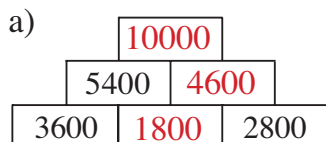
Check:

$$\begin{array}{r} 4567 \\ - 2995 \\ \hline 1572 \end{array}$$

$$\begin{array}{r} 2995 \\ + 1572 \\ \hline 4567 \end{array}$$

4

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



1

Do the operations in the correct order.

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

Calculations**2**

Fill in the missing numbers.

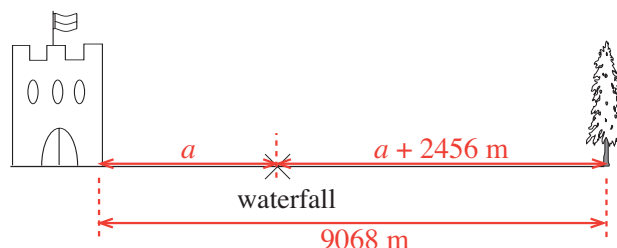
a)
$$\begin{array}{r} 3600 \\ + \\ 1900 \\ \hline 5500 \end{array} + \begin{array}{r} 1800 \\ + \\ 2600 \\ \hline 4400 \end{array} = \begin{array}{r} 5400 \\ + \\ 4500 \\ \hline 9900 \end{array}$$

b)
$$\begin{array}{r} 12\ 500 \\ - \\ 7200 \\ \hline 5300 \end{array} - \begin{array}{r} 3500 \\ - \\ 1800 \\ \hline 1700 \end{array} = \begin{array}{r} 9000 \\ = \\ 5400 \\ = \\ 3600 \end{array}$$

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 *Dobleland*, 2500 more adults than children. How many adults and how many children live there?
6000 adults and 3500 children live in Dobleland.

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

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
3	7	6	4	0
-	6			
	1	6		
-	1	5		
		1	4	
-		1	2	
			2	0
			-	1
				8
				2

r 2 Details:

7 Th \div 3 = $\boxed{2}$ Th, because
 $\boxed{2}$ Th \times 3 = $\boxed{6}$ Th, and $\boxed{1}$ Th remains.
 1 Th + 6 H = 16H; 16H \div 3 = $\boxed{5}$ H, because
 $\boxed{5}$ H \times 3 = $\boxed{15}$ H, and $\boxed{1}$ H remains.
 1H + 4T = 14T; 14T \div 3 = $\boxed{4}$ T, because
 $\boxed{4}$ T \times 3 = $\boxed{12}$ T, and $\boxed{2}$ T remains.
 2T + 0U = 20 U, 20 U \div 3 = $\boxed{6}$ U, because
 $\boxed{6}$ U \times 3 = $\boxed{18}$ U,
 and $\boxed{2}$ U remains.

E: 6000 < 7640 < 9000

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

3

Do the divisions and check them with multiplication.

a)

	Th	H	T	U
	1	2	3	1
5	6	1	5	7
-	5			
	1	1		
-	1	0		
		1	5	
-		1	5	
			0	7
			-	5
				2

← 1 Th \times 5
 ← $\boxed{2}$ H \times 5
 ← $\boxed{3}$ T \times 5
 ← $\boxed{1}$ U \times 5

Ch:

1	2	3	1	\times	5	
6	1	5	5			
				+	2	
6	1	5	7			

b)

	Th	H	T	U
	9	1	8	
8	7	3	4	8
-	7	2		
		1	4	
-			8	
			6	8
			-	6
				4

← $\boxed{9}$ H \times 8
 ← $\boxed{1}$ T \times 8
 ← $\boxed{8}$ U \times 8

Ch:

9	1	8	\times	8	
7	3	4	4		
				+	4
7	3	4	8		

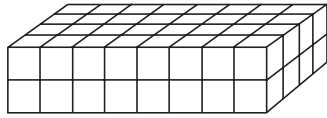
1

How many unit cubes have been used to build the cuboids?

Calculate the volume in 3 different ways.

E.g:

a)

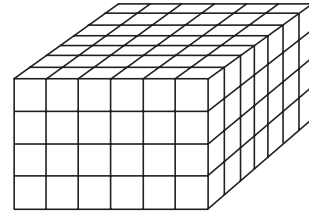


$$V = 8 \times 2 \times 4 = 64 \text{ units}$$

$$V = 8 \times 4 \times 2 = 64 \text{ units}$$

$$V = 4 \times 2 \times 8 = 64 \text{ units}$$

b)



$$V = 6 \times 7 \times 4 = 168 \text{ units}$$

$$V = 6 \times 4 \times 7 = 168 \text{ units}$$

$$V = 7 \times 4 \times 6 = 168 \text{ units}$$

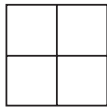
2

Fill in the missing numbers.

a) $1256 \times 6 = 1256 \times 5 + \boxed{1256}$

b) $2432 \times 3 = 2433 \times 3 - \boxed{3}$

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

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

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

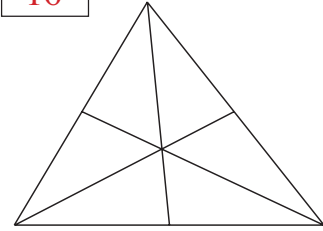
1

a) How many triangles can you see in this diagram? 16

b) How many triangles could you see in

i) 100 of these diagrams 1600

ii) 1000 of these diagrams? 16000



2

Fill in the missing numbers.

a) $4200 \xrightarrow{\div 4} \boxed{1050} \xrightarrow{\div 5} \boxed{210} \xrightarrow{\div 6} \boxed{35} \xrightarrow{\times 8} \boxed{280} \xrightarrow{\times 5} \boxed{1400}$

b) $4200 \xrightarrow{\div 10} \boxed{420} \xrightarrow{\div 3} \boxed{140} \xrightarrow{\div 4} \boxed{35} \xrightarrow{\times 5} \boxed{175} \xrightarrow{\times 6} \boxed{1050}$

c) $4200 \xrightarrow{\div 7} \boxed{600} \xrightarrow{\div 10} \boxed{60} \xrightarrow{\div 5} \boxed{12} \xrightarrow{\times 25} \boxed{300} \xrightarrow{\times 2} \boxed{600}$

3

How many different results can you find? Use +, -, × or ÷ signs. **16 ways**

$1000 \square 10 \square 5 = \square$

List the operations and results in your exercise book. **See Lesson Plan for list of operations.**

4

Mr. Black bought 1000 kg of coal. He used about 75 kg each week.

a) How much coal had he used after 6 weeks? **$75 \text{ kg} \times 6 = 450 \text{ kg}$**

b) How much coal did he have left after 6 weeks? **$1000 \text{ kg} - 450 \text{ kg} = 550 \text{ kg}$**

c) After how many weeks might he run out of coal? **Mr Black might run out of coal after 13 weeks**

5

Practise multiplication. Complete the tables as quickly as you can!

×	2	4	6	8	10
2	4	8	12	16	20
4	8	16	24	32	40
6	12	24	36	48	60
8	16	32	48	64	80
10	20	40	60	80	100

×	1	3	5	7	9
1	1	3	5	7	9
3	3	9	15	21	27
5	5	15	25	35	45
7	7	21	35	49	63
9	9	27	45	63	81

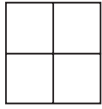
×	1	3	5	7	9
2	2	6	10	14	18
4	4	12	20	28	36
6	6	18	30	42	54
8	8	24	40	56	72
10	10	30	50	70	90

6

How many times is the digit 8 used in all the whole numbers from 0 to 100?

The digit 8 is used 20 times.

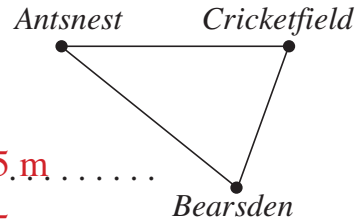
1



- 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

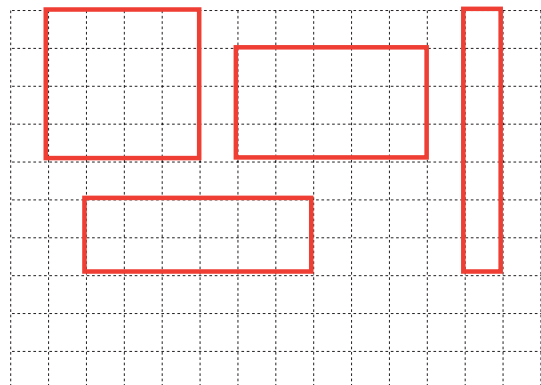
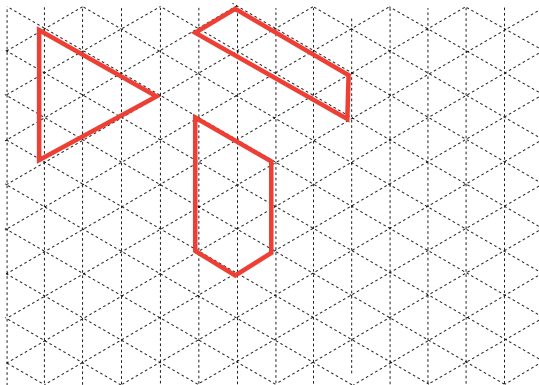


- a) How far away in real life is:
- i) *Bearsden* from *Antsnest*? **.2625 m**
- ii) *Cricketfield* from *Antsnest*? **.2625 m**
- b) What distance in real life is the round trip? **.7000 m**

3

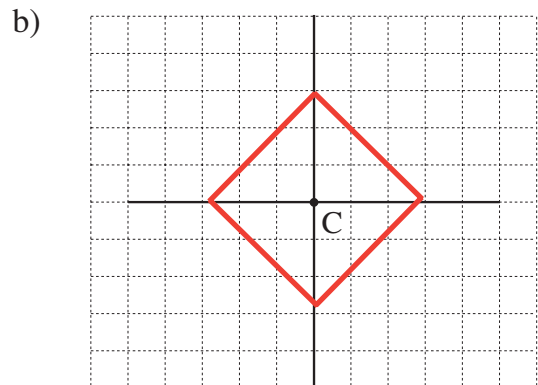
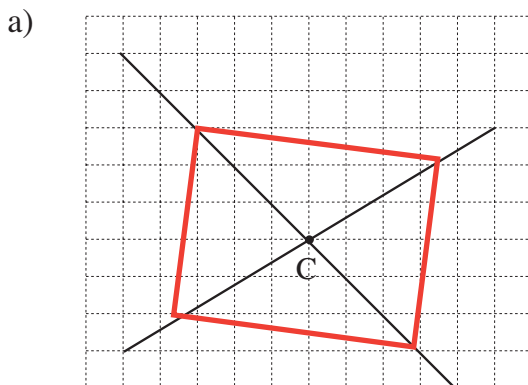
- a) Draw 9-unit perimeters which enclose a triangle, a quadrilateral and a pentagon.
- b) Draw 16-unit perimeters which enclose different rectangles.

E.g:



4

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



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

1

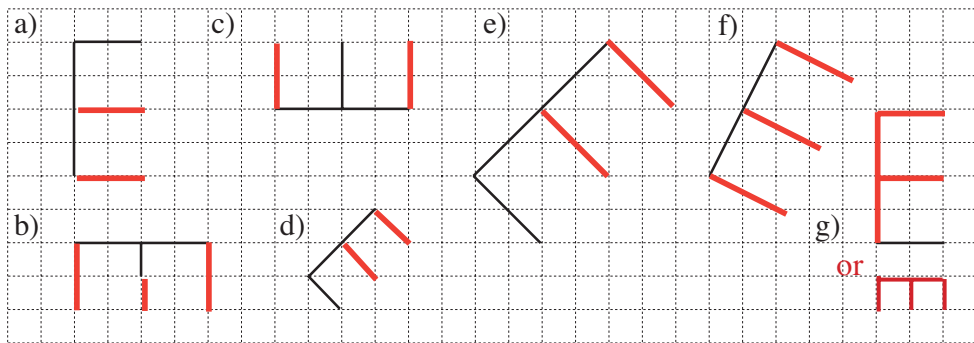
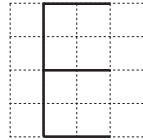
In your exercise book, make a plan, estimate, calculate, check and write the answer as a sentence.

- 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

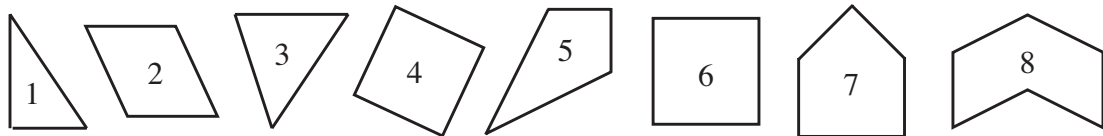
Mark the **parallel** and **perpendicular** lines on this capital E.

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



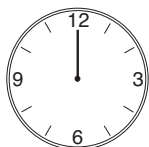
3

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**

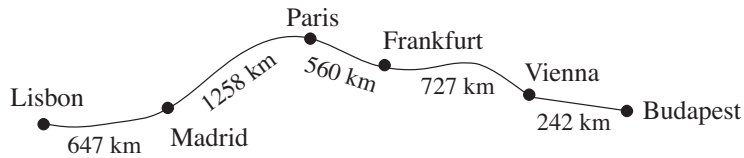
1

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.

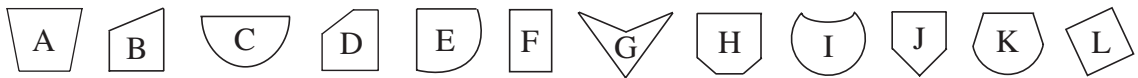
- b) A tourist drew this rough map of where he had travelled.



- 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.

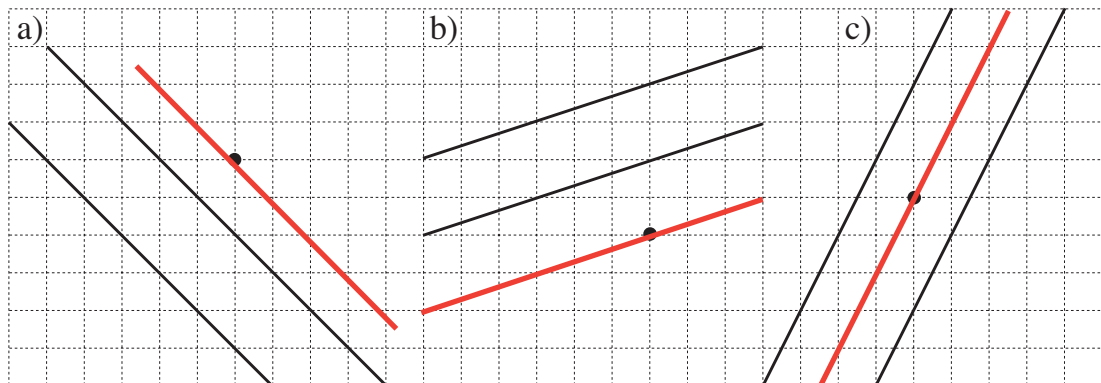


List the shapes for which each statement is true.

- | | |
|---|---|
| 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 |

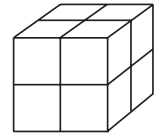
3

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.

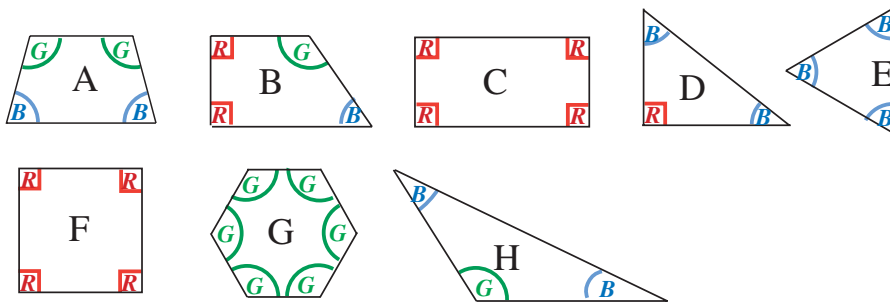


- a) How many unit cubes does this cube contain? ... **8** ...
- b) How many unit cubes would 1176 of these cubes contain? **9408**
- c) How many of these large cubes could be built from 9648 unit cubes? **1206**

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.



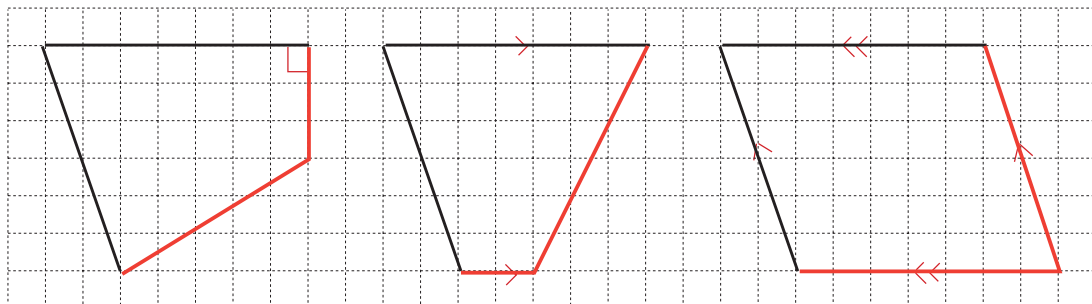
b) List the letters of the shapes for which each statement is true.

- 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
- b) 2 of its sides are parallel
- c) it has 2 pairs of parallel sides.

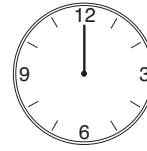


1

The minute hand is pointing to 12.

Compare the angle it turns with a right angle.

Write in the missing signs. (<, >, =)



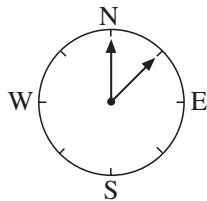
- a) After 5 minutes it has turned through an angle a right angle.
- b) After 10 minutes it has turned through an angle a right angle.
- c) After 15 minutes it has turned through an angle a right angle.
- d) After 25 minutes it has turned through an angle a right angle.
- e) After 30 minutes it has turned through an angle a right angle.

2

Complete the drawings and write how many right angles the arrow has turned if it:

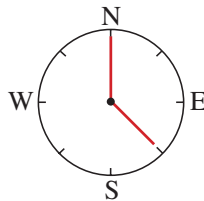
a) turns to the right:

i) from N to NE



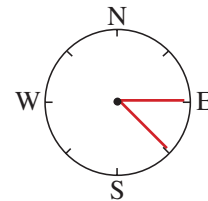
right angle

ii) from N to SE



right angles

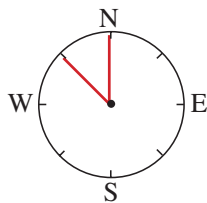
iii) from E to SE



right angle

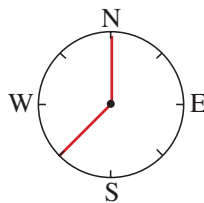
b) turns to the left:

i) from N to NW



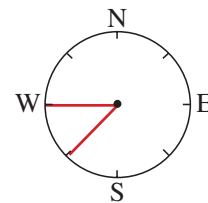
right angle

ii) from N to SW



right angles

iii) from W to SW

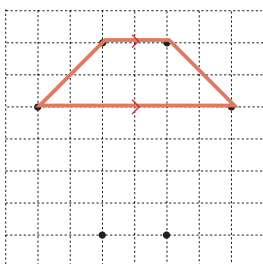


right angle

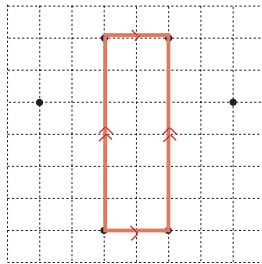
3

Join up 4 of the 6 points to make a quadrilateral which has:

a) only 1 pair of parallel sides
E.g: trapezium



b) 2 pairs of parallel sides



c) 1 pair of parallel and 1 pair of perpendicular sides.

