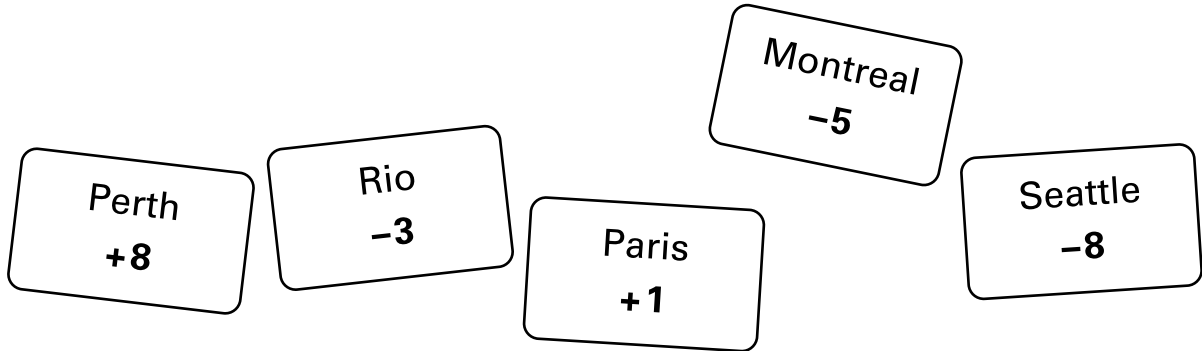


1

We can compare the time around the world to UK time.

+8 means that Perth is 8 hours **ahead** of UK time.

-3 means that Rio is 3 hours **behind** UK time.



Example:

When it is 16:30 in the UK, it is 17:30 in Paris but only 13:30 in Rio.

(a) It is **20:00** in the UK.

What time is it in **Seattle**?



.....

.....
1 mark
Number
level 4

(b) It is **14:15** in **Montreal**.

What time is it in the **UK**?



.....

.....
1 mark
Number
level 4

(c) It is **17:20** in **Paris**.

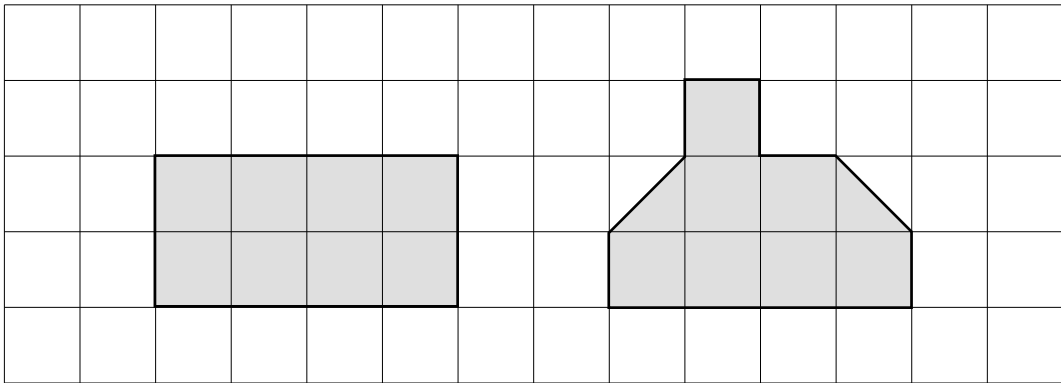
What time is it in **Rio**?



.....

.....
1 mark
Number
level 5

- 2 The diagram shows two shapes drawn on a centimetre square grid.



- (a) Do the shapes have the **same area**?

Tick (✓) Yes or No.



Yes

No

Explain how you know.



1 mark
Shape
level 4

- (b) The **perimeter** of the **rectangle** is **12 cm**.

Mark thinks the perimeter of the other shape is also 12 cm.

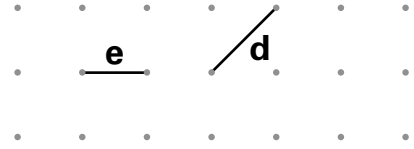
Explain why Mark is **wrong**.



1 mark
Shape
level 4

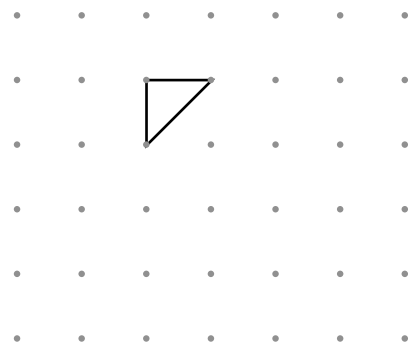
3


You can make shapes using lines of length e and length d



(a) An expression for the perimeter of this triangle is $e + e + d$

Write this expression in its simplest form.

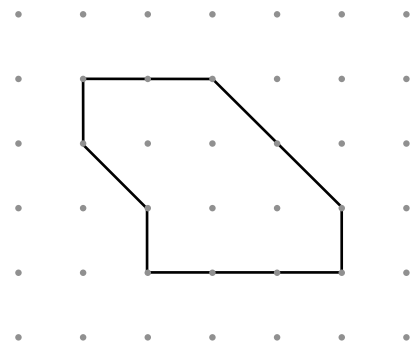




1 mark
Algebra
level 5

(b) Use e and d to write an expression for the perimeter of this shape.

Write your expression in its simplest form.





1 mark
Algebra
level 5

(c) Draw a shape with a perimeter of $6e + 2d$



1 mark
Algebra
level 5

(d) Draw a shape with an area of d^2



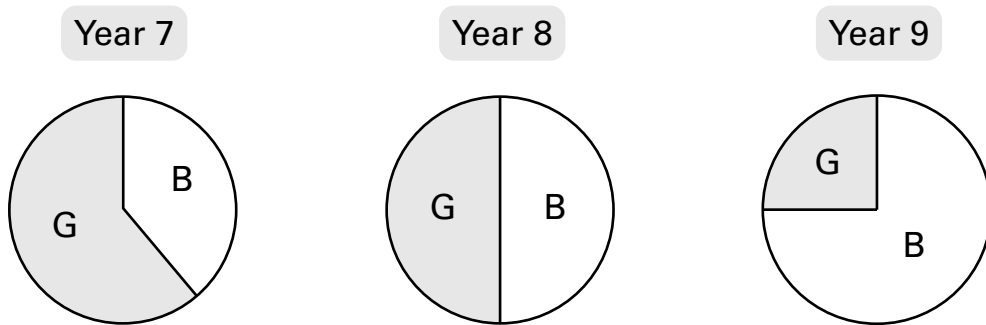
1 mark
Algebra
level 5

4

A school has the same number of pupils in each of years 7, 8 and 9
The headteacher asked these pupils:

'Should the colour of the school uniform be green (G) or blue (B)?'

The diagrams show the results from each year group.



Anna said:

'Altogether, **green** was the more popular colour.'

Is she correct? Tick (✓) Yes or No.



Yes

No

Explain your answer.



1 mark
Data
level 5

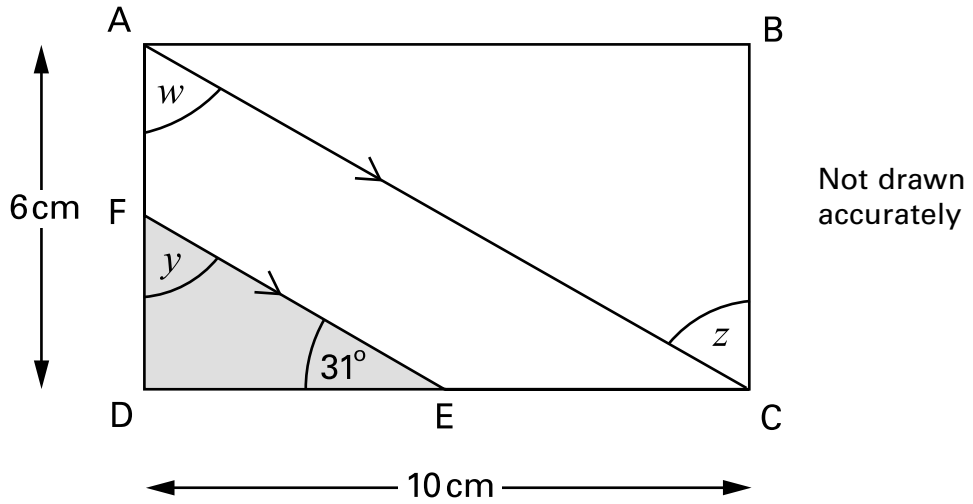
5

Shape ABCD is a rectangle.

E is the middle point of line DC

F is the middle point of line AD

Line AC is parallel to line FE



(a) How many degrees is angle w ?

Show your working.



.....

 2 marks
 Shape
 level 6

(b) How many degrees is angle z ?



.....

 1 mark
 Shape
 level 6

(c) What is the area of triangle EDF?

Show your working.



.....
 cm^2

 2 marks
 Shape
 level 6


6

You can change the number 5 to the number 2 in different ways.

X
non
calc
paper

Fill in the missing numbers.

The first one is done for you.



5 — subtract
3
..... → 2

5 — add
..... → 2

5 — divide by
..... → 2

5 — multiply by
..... → 2

1 mark
Number
level 5

1 mark
Number
level 6

1 mark
Number
level 6


7

You can use algebra to write instructions as expressions.

For example:

Double a number,
then add 3 to the answer. → $2n + 3$

Complete the following:

Add 4 to a number,
then square the answer. → 

1 mark
Algebra
level 6