National Numeracy Tests

REASONING

7ER18

Last name	
School	
Class	
Date of birth	00 00 0000
Date of test	2018

(maximum 20)





First name

Total score

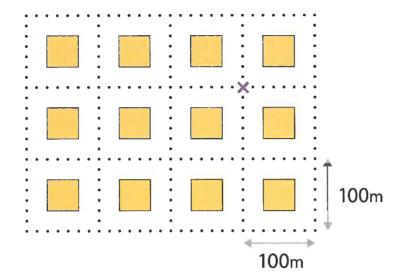




Ffion is at X

She walks on the roads for 200m, away from X

Put crosses to show all six places she could be now.



Key:

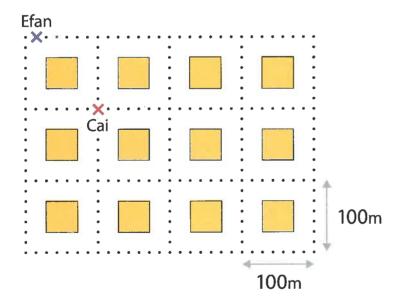
· · · · road



tall building



Cai is at x and Efan is at x



Key:

 \cdots road



tall building

Cai can't see Efan because of the tall building.

Efan moves east (→).

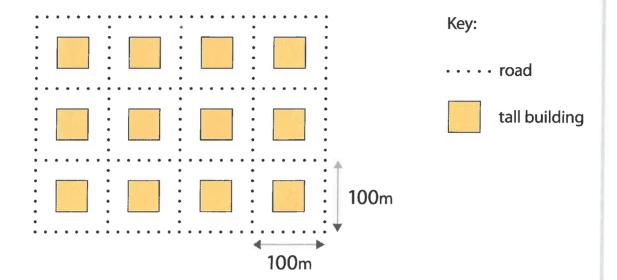
Where is Efan when Cai can first see him?

Show his position accurately with a cross.



An important person is coming to the town.

There will be red carpet on **all** the roads.



The town has a 3km-long red carpet. Is this enough for all the roads? Show how you know.





This boat takes passengers whale watching.

Whale watching:

Up to 18 passengers per trip



One weekend 283 passengers went on the boat.

Each trip was full except for the last trip.

How many passengers were on the last trip?



passengers

In the bottle is 50% orange juice and 50% lemonade, mixed together.

Liam drinks half of it then fills the bottle with lemonade.

What is in the bottle now?



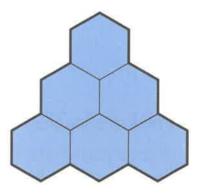
The **perimeter** of this regular hexagon is 120cm.



_% orange juice, _____% lemonade

Not full size

Six of these hexagons join together to make this new shape.



What is the perimeter of the new shape?







Work out the missing digits.

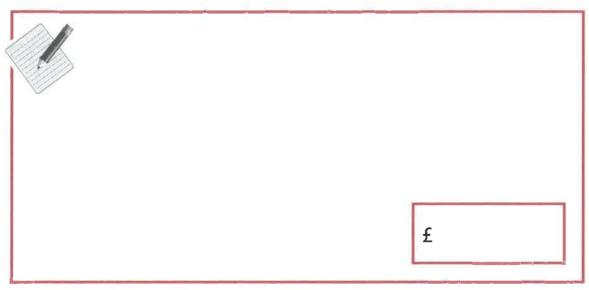








Nadeen gives Kim some of her money so that they have the **same** amount. How much does Nadeen give to Kim?







A new school needs to plan a timetable.

- Lessons will start at 9:30am and end at 3:45pm.
- There must be 6 lessons in a day, all the **same** length.
- There must be 1 break of 15 minutes and 1 hour for lunch.

How long should a lesson be?

