

REASONING

4ER14

First name _____

Last name _____

School _____

Class _____

Date of birth

Date of test

Total score (maximum 20)



117607



Llywodraeth Cymru
Welsh Government

1



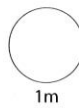
7 lubs



9 lubs



lubs



2 lubs



6 lubs



lubs



15 lubs



10 lubs



lubs



Hat shop



5 lubs each



2 lubs each



3 lubs each

Hatty has **20** lubs to buy hats.

Here is one way she can buy hats costing **20** lubs.



and



and



Give four **different** ways she can buy hats costing 20 lubs.



and



and





and



and





and



and





and



and

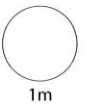


- 2** 12 children are in a circle.
They are numbered 1 to 12



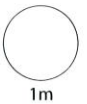
3 is opposite **9**

12 is opposite

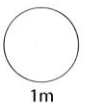


100 children are in a circle.
They are numbered 1 to 100

100 is opposite



25 is opposite



- 3 Abbi has three pairs of shoes:



blue (B)



yellow (Y)



pink (P)

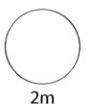
She always wears shoes that are **different** colours!

Example:

Her right foot	Her left foot
B	Y



Show **all** the different ways she can wear her shoes.



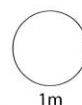
4 Aled has six dice.

Each dice has the numbers 1, 2, 3, 4, 5 and 6 on it.

He makes this tower.

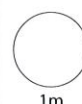


What is the **total** of the numbers you can see on this tower?

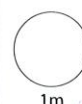


Aled uses all six dice to make a **new** tower.

The **smallest** possible total is



The **largest** possible total is



He uses **some** of the dice to make a new tower.

The largest possible total is **24**

How many dice does he use?

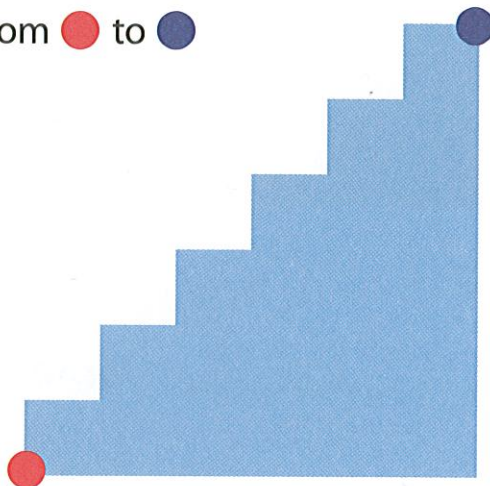


5 This is Sammy the snail.

He is very slow.



He climbs the stairs from ● to ●



He takes **30 minutes** to climb **up** each step. ↑

He takes **15 minutes** to move **along** each step. →

He starts climbing at **6am**.

What time is it when he gets to ●?



The time when he gets to ● is