National Numeracy Tests

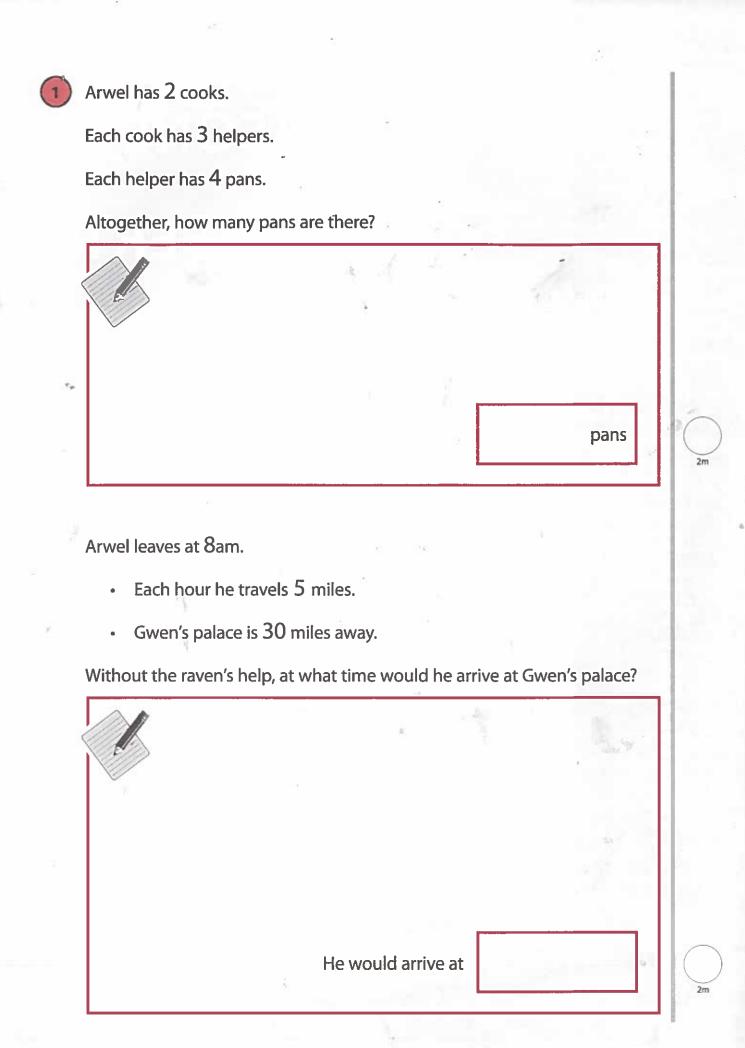
REASONING 5ER18

| First name |
|--------------------------|
| |
| Last name |
| School |
| 6 % |
| Class |
| |
| Date of birth O |
| Date of test 0 5 2 0 1 8 |
| |
| <i>y</i> |
| Total score (maximum 20) |





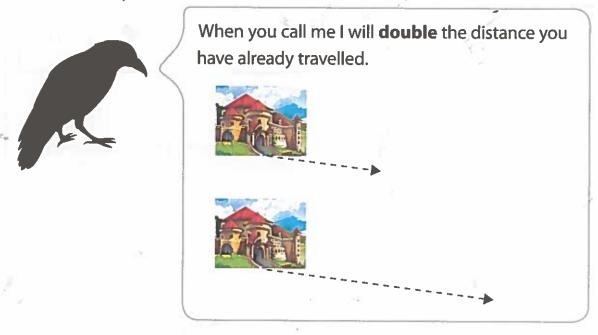




Arwel leaves at 8am.

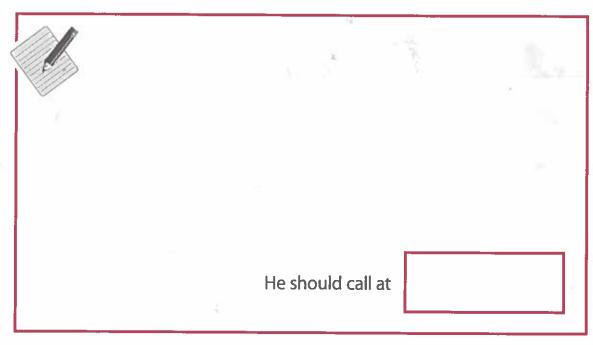
- Each hour he travels 5 miles.
- Gwen's palace is 30 miles away.

The raven helps!



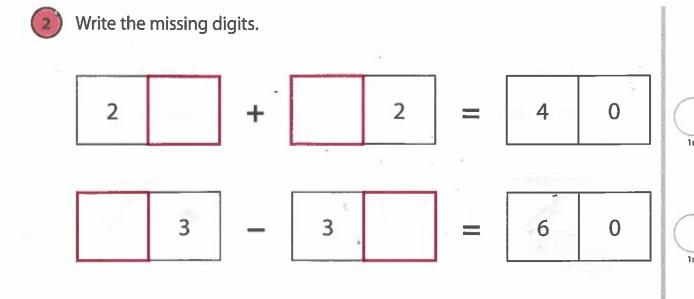
Arwel wants to arrive as quickly as possible.

At what time should he call the raven?











Brad buys 1 litre in small bottles.

Ryan buys 1 litre in one large bottle.

How much more does Brad pay than Ryan?





Star patterns use 2 red rods with each blue rod.

Examples:



4 blue rods

8 red rods



6 blue rods

12 red rods

Poppy makes a star pattern.

She uses 20 red rods.

How many **blue** rods does she use?

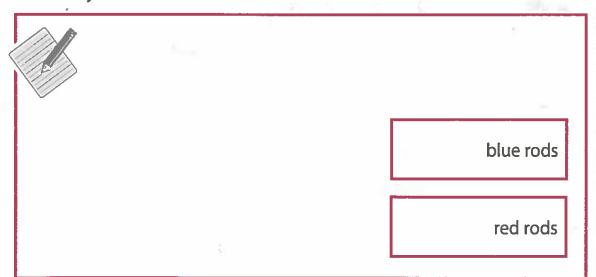
blue rods



Jamal makes a star pattern.

He uses 120 rods altogether.

How many blue rods and red rods does he use?







5

| | Scores in a singing competition | | | |
|---------|---------------------------------|-------|-----|---|
| | Tom | Elain | Mia | |
| Judge A | - 4 | 3 | 2 | 9 |
| Judge B | 2 | 2 | 1 | 5 |

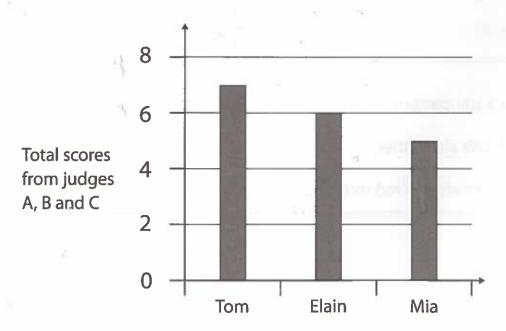
In the table, 4 shows

Tom's score from judge A.

In the table, 1 shows

In the table, 9 shows

The chart below shows the **total** scores from judges A, B **and also C**.



Work out judge C's scores.

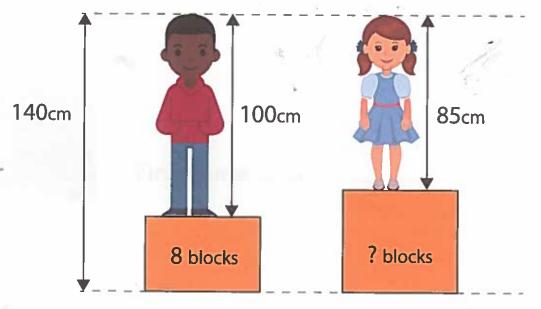
| | Tom | Elain | Mia |
|---------|-----|-------|-----|
| Judge C | *** | | |



Sam and Meg have lots of blocks that are all the same height.

They stand on some of the blocks.

Now they are both 140cm high.



Not drawn to scale

Sam stands on 8 blocks.

How many blocks does Meg stand on?

Show how you work it out.

