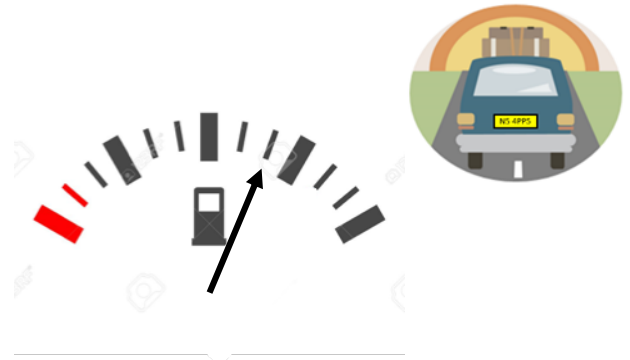


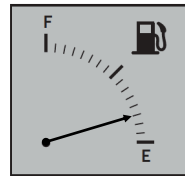
## Reading Scales:

### Exam Style Questions

1. Martin is driving home and looks at his fuel gauge. His car tells him that he can drive a further 252 miles. How far can he drive when the tank is full?



2. When the tank is full Lauren can drive 384 miles. On a long drive across America she looks at her fuel gauge. The next petrol station is 65 miles away. Does she have enough fuel to make it?

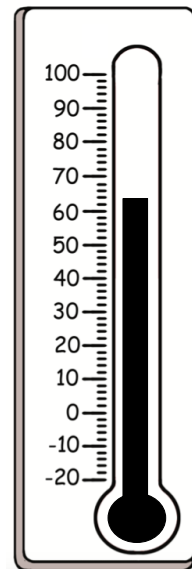


3. Dave is in chemistry conducting an experiment. The instructions say the temperature should rise by 10% every minute.

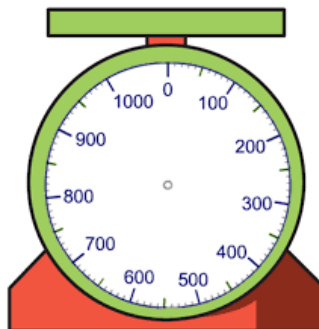
a) What will the temperature be in 2 minutes?

After this the temperature will drop by  $8^{\circ}\text{C}$  every minute until it reaches  $20^{\circ}\text{C}$ .

b) How many full minutes will pass when this happens?

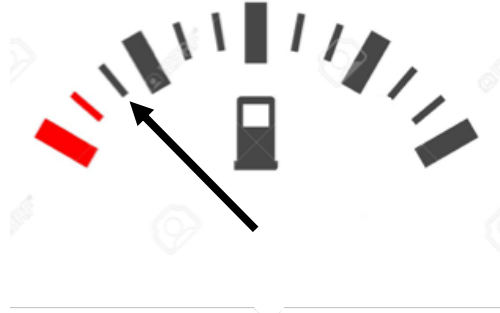


4. Harriot is making a cake. With 1kg of flour on the scale she removed 680 grams. Mark on the scale the remaining flour.



5. Sarah looks at her fuel tank and is shown below.

a) What percentage of Sarah's tank is left? **Give your answer to 1 decimal place.**



b) If this means Sarah can drive 45 miles. How much can Sarah drive when it is full?

Sarah's car tells her she has been driving for 9 hours since she last filled her tank.

c) What has been Sarah's average speed been since she filled her tank?

6. A golf course has strict rules about driving the golf carts. Carts must not exceed 20mph. Below is the speedometer of a kart being driven



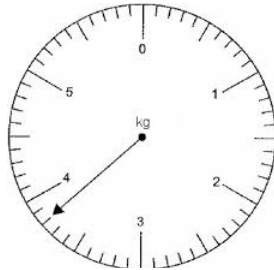
a) Are they exceeding the limit?

Members will receive a fine if they are 5% over the speed limit, and a warning if otherwise.

b) Will the member receive a fine or a warning? **Justify your answer**

7. Hand luggage at the airport under new measures to reduce carbon emission cannot exceed 4kg.

Mrs Jones's hand luggage is weighted and shown below.



a) How much more could Mrs Jones pack her bag with without exceeding the limit?

Mr Jones only has 2.2kg in his hand luggage.

b) What percentage of their full hand luggage allowance have Mr and Mrs Jones used together?