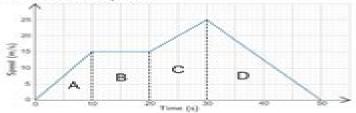
- Each straight line shows a different constant acceleration.
- The gradient of each line is equal to the acceleration of the object along that section.
- A horizontal line shows an acceleration of zero and a constant speed.
- Ex: s = d/t
 A = (15 m/s 0) + (10 s 0)
 A = 1.5 m/s²
 B = (0 m/s 0 m/s) + (20 s 10 s)
 B = 0 m/s²
 C = (25 m/s 15 m/s) + (30 s 20 s)
 C = 1m/s²
 D = (25 m/s 0 m/s) + (50 s 30 s)



- To find distance on a velocity time graph, calculate the area under the line on the graph, using a combination of squares and triangles (Note: the area of a triangle is % x height x width).
- Ex: d = s x t
 A = ½ x 15 m/s x 10 s
 A = 75 m
 B = 10 s x 15 m/s
 B = 150 m
 C = ½(15 m/s + 25 m/s) x 10 s
 C = 200 m
 D = ½ x 20 s x 25 m/s
 D = 250 m

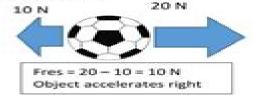
 $D = 1.25 \text{ m/s}^3$

Forces, Weight and Mass

Forces

- Forces are measured in newtons (N).
- Some forces can be measured using a newton meter.
- · The resultant force (Fres) is the sum of forces acting on one object.
- Resultant = force in one direction force in opposite direction.





Weight and Mass

- Weight and mass are linked by gravitational field strength:
 Weight = mass x gravitational field strength (w = mg).
- On Earth the gravitational field strength = 9.8 m/s² or 9.8 N/kg (rounded to 10 m/s²).
- Ex: An object is 10 kg on Earth. Calculate its mass and weight on Jupiter (g = 25 m/s²).
 W = mg
 W = 10 x 25

W = 250 N (mass is unchanged)

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