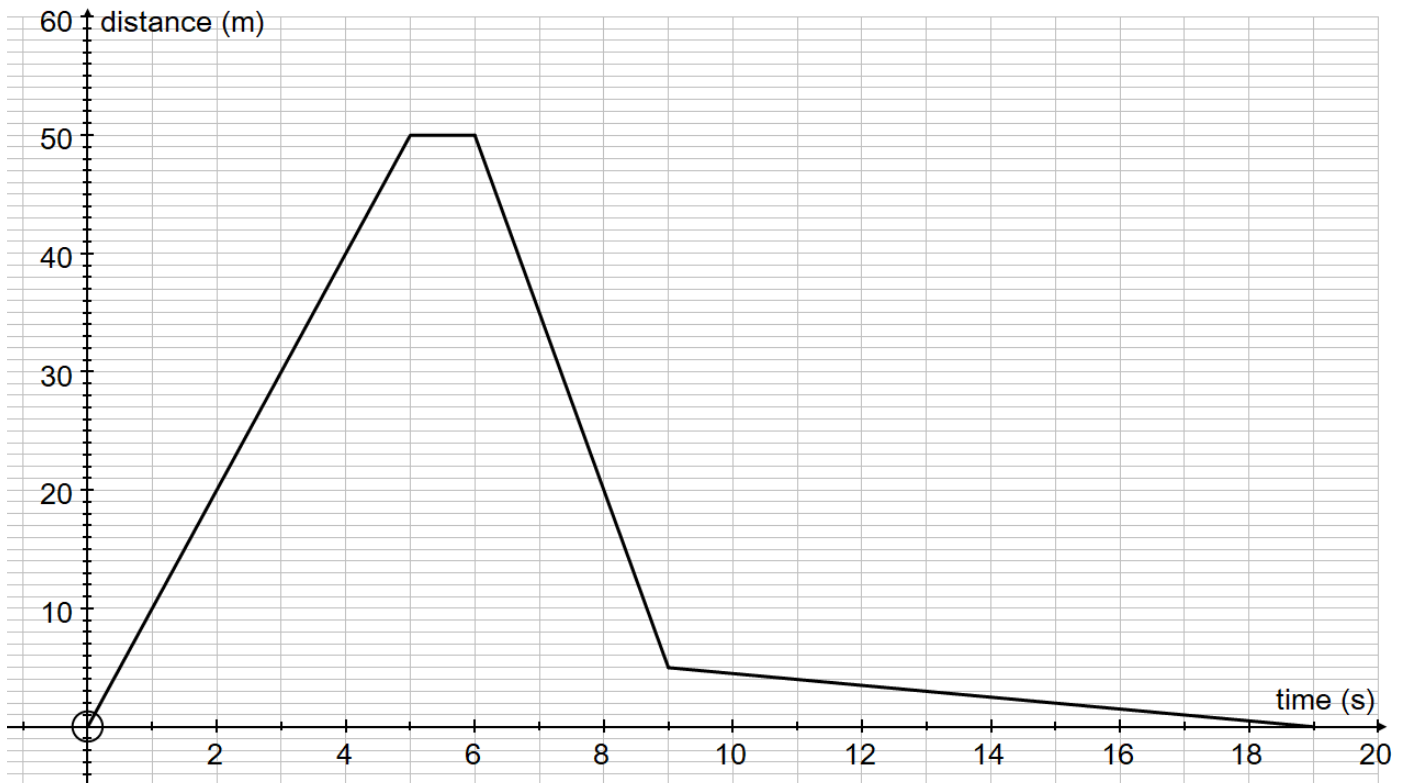


Interleaf 4

- 1) Expand and simplify $(x - 2)(x + 5)$
- 2) Below is a distance-time graph showing an athlete doing shuttle runs on a straight track



- a) How far has the athlete run in total 9 seconds into the exercise?
 - b) Find the final speed that the athlete was running at.
 - c) Find the fastest speed the athlete was running at.
- 3) Solve for x $\frac{x-4}{3} = 5$
 - 4) A picture that is 20cm long is enlarged so that it is now 25cm long.
Given that the first picture had an area of 80cm^2 , find the new area of the enlarged picture.
 - 5) Make x the subject of $5x - 1 = y$
 - 6) Convert 0.8m^2 into cm^2
 - 7) Solve for x $4(2x - 1) = 6$
 - 8) Find the equation of the line with gradient of $-\frac{1}{2}$ that passes through the point (4, -1)
 - 9) Solve for x $\frac{4}{x+1} = 3$

Answers 1) $x^2 + 3x - 10$ 2a) 95m b) 0.5m/s c) 15m/s 3) 19 4) 125cm^2 5) $x = \frac{y+1}{5}$ 6) 8000cm^2
7) $\frac{5}{4}$ 8) $y = -\frac{1}{2}x + 1$ 9) $\frac{1}{3}$