Moving Straight Ahead   Teaching Aid 2.1B: Amit's Claims

Claim #1

You can tell the walking rate and y-intercept from the equation.

Claim #2

You can determine which of the two lines will be steeper from the equation.

Claim #3

Both equations represent linear relationships.

But, neither of them are proportional.

Claim #4

You can find the time when Emile catches Henri, by setting the expressions for distance equal.

$$D_{Emile} = D_{Henri}$$
$$2.5t = 45 + 1t$$

Then find the value for t that makes the equation true.

Claim #5

You can use the expression
$$(45 - 1.5t) - 2.5t$$
to find the distance the brothers are apart for any given second t.