Moving Straight Ahead   Teaching Aid 2.1B: Situation B 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

$$45 - (2.5t - 1t)$$

to find the distance the brothers are apart for any given second t.