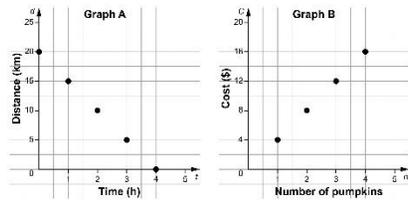


Activity 17 Assessment

Comparing Constant Rates and Initial Values

Comparing Constant Rates and Initial Values

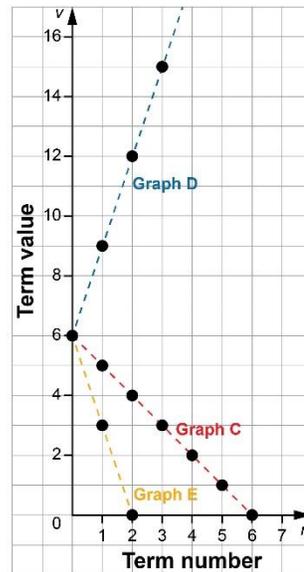
Understands how linear graphs can represent real-life situations



Graph A represents the distance remaining on a 20-km hike, when walking at an average speed of 5 km/h.

Graph B represents the cost of different numbers of pumpkins, when 1 pumpkin costs \$4.00.

Compares graphs with the same initial value



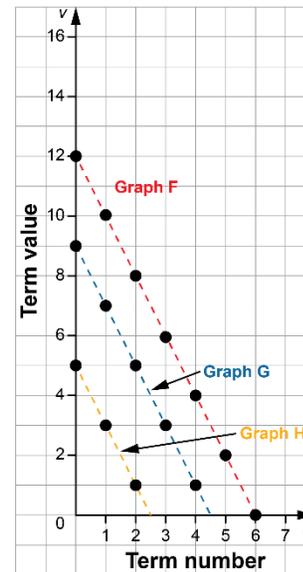
All graphs have the same initial value of 6, because they intersect the vertical axis at that point.

Graph C decreases at a constant rate of -1 .

Graph D increases at a constant rate of 3.

Graph E decreases at a constant rate of -3 .

Compares graphs with the same constant rate



All graphs have the same constant rate of -2 because they are parallel and go down to the right.

Graph F has an initial value of 12.

Graph G has an initial value of 9.

Graph H has an initial value of 5.

Solves problems involving constant rates and initial values

Kim is planning a fundraiser. Venue A costs \$100, plus \$15 per person. Venue B costs \$200, plus \$10 per person. Which venue is the better deal? Why?

Make tables of values.

Venue A

Number of people	Cost (\$)
0	100
10	250
20	400
30	550

Venue B

Number of people	Cost (\$)
0	200
10	300
20	400
30	500

If fewer than 20 people attend (unlikely), then Venue A is cheaper. If more than 20 people attend, Venue B is cheaper.

Number

Activity 17 Assessment

Comparing Constant Rates and Initial Values

Observations/Documentation			