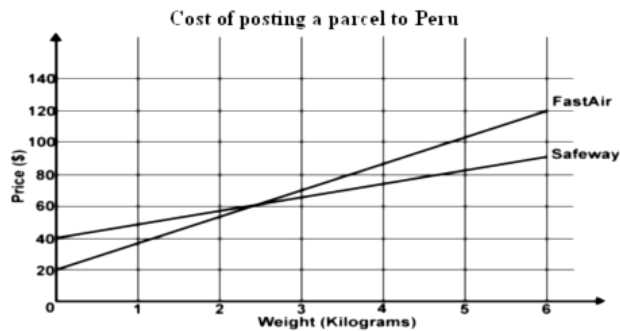


Post a parcel

This task is about comparing costs of sending parcels for two different companies.

Two courier companies charge different rates to send parcels by airmail.

a) This graph shows the price each company charges for sending a parcel to Peru.



Show how to use this graph to find the weight of a parcel that both companies would charge the same amount of money to send to Peru. You may draw on the graph or write what you would do in the box below.

Weight of parcel: _____ kilograms

b) This table shows the price each company charges for sending a parcel to Tonga. Weights that are part kilograms are charged proportionally (e.g., each 0.1 kg will cost an extra \$4 with FastAir).

Company	Weight of parcel (in kilograms)					
	0	1	2	3	4	5
FastAir	\$20	\$60	\$100	\$140	\$180	\$220
SafeWay	\$50	\$70	\$90	\$110	\$130	\$150

Show how to use this table to find the weight of a parcel that both companies would charge the same amount of money to send to Tonga (give your answer to 1 d.p).

Weight of parcel: _____ kilograms

c) These equations show the price each company charges for sending a parcel to Tāmaki Makaurau.

FastAir: **Cost = $7x + 14$**

SafeWay: **Cost = $4x + 35$**

where x is the weight of a parcel.

Show how to use these equations to find the weight of a parcel that both companies would charge the same amount of money to send to Tāmaki Makaurau.

Weight of parcel: _____ kilograms