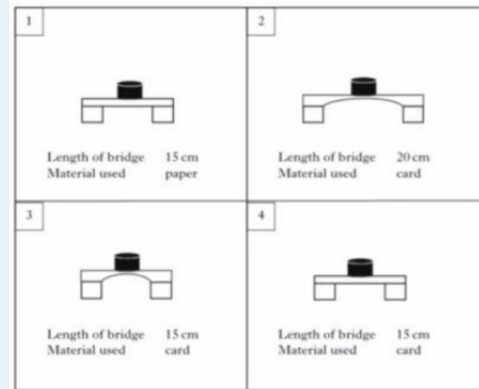


1

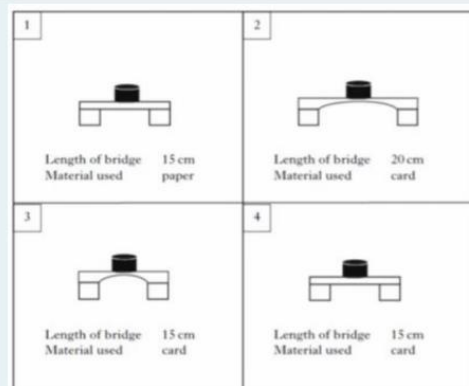


Adeela investigated the strength of model bridges. She added weights to each bridge until the bridge collapsed. The experiments she carried out are shown.

Adeela wanted to find out how length of bridge affects its strength.

Which 2 boxes show the experiments she should compare for a fair test
(2 Points)

2



Adeela compared the experiments in boxes 1 and 4. What was she trying to find out
(1 Point)

3

1	 Length of bridge 15 cm Material used paper	2	 Length of bridge 20 cm Material used card
3	 Length of bridge 15 cm Material used card	4	 Length of bridge 15 cm Material used paper

Adeela needed to make her experiment a fair test, name one other variable she should keep constant if comparing boxes 1 and 4
(1 Point)

4



A road tanker delivers petrol and diesel to a filling station. The volume of petrol in the tanker is 6 600 litres. The total volume of fuel in the tanker is 11 000 litres.

Calculate the volume in litres delivered * 
(1 Point)

5



Petrol is sold at £1.20 per litre and diesel is sold at £1.25 per litre.

How much money will the garage owner collect when she has sold all the fuel delivered *
(2 Points)

6



The garage makes 5% profit per litre of petrol. What is the garage's profit? *
(1 Point)

