

INDEPENDENT PRACTICE MATERIAL

Worksheet 5: Beach clean-up

US 32406 | 7 items | Untimed | Use a ruler, blank paper and standard calculator as needed.

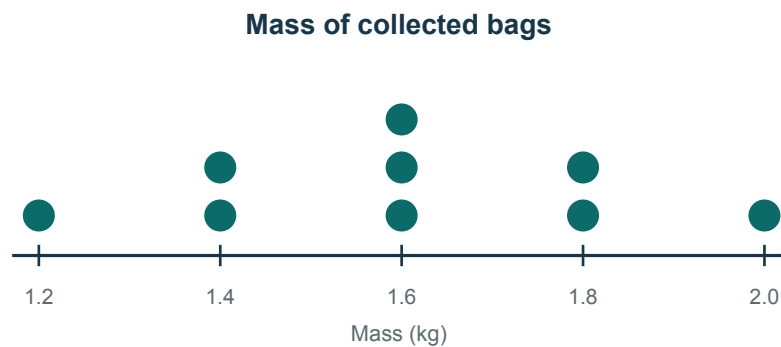
QUESTION 5 | Beach clean-up

- 5(a)** Volunteers collect 180 items. Two-fifths of the items are plastic.

How many plastic items are collected?

 items

- 5(b)** The dot plot shows the mass of nine bags collected by one group.



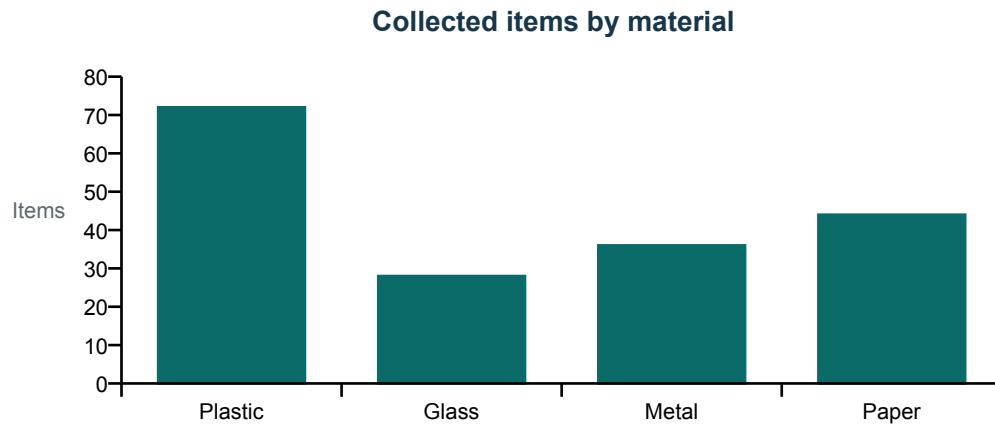
Which statement is correct?

- (i) The median mass is 1.4 kg
 - (ii) The range of the masses is 1.0 kg
 - (iii) The most common mass is 1.6 kg
 - (iv) Half of the bags are heavier than 2.0 kg
 - (v) The graph shows 10 bags
- 5(c)** Another group fills 8 sacks. The average mass of each sack is 2.35 kg.

What is the total mass of the sacks, in grams?

 g

- 5(d)** The chart shows the 180 collected items by material. An organiser says, 'More than half of all items were plastic or metal.'



Is the organiser correct? Use numbers from the chart to explain your answer.

Write your explanation below.

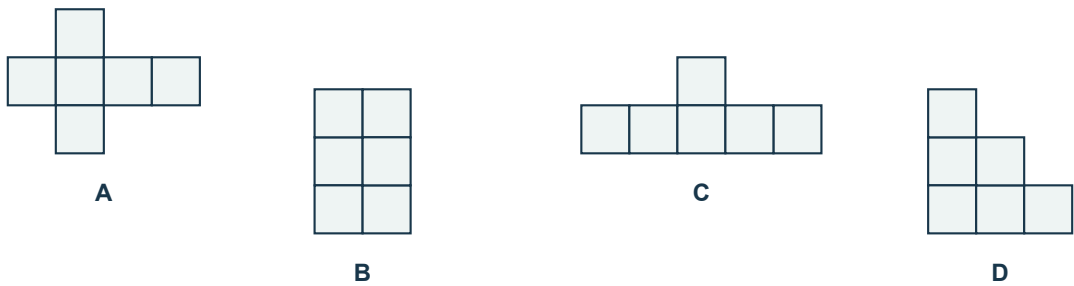
- 5(e)** Two of the last 10 planned clean-up events were cancelled because of unsafe weather.

Based on these results, what is the estimated chance that the next event is cancelled? Give your answer as a percentage.

 %

5(f) A collection box is a cube. Four possible nets are shown.

Possible cube nets



Which net will fold to make the cube?

- (i) A
- (ii) B
- (iii) C
- (iv) D

5(g) Volunteers photograph a piece of driftwood next to a standard cleaning bucket.



About how long is the driftwood, in centimetres?

cm