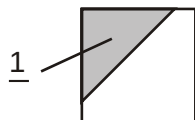
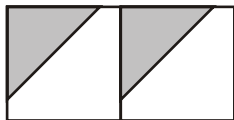


1. $\frac{1}{3}$ of this square is shaded.



The same square is used in the diagrams below.

What fraction of this diagram is shaded?





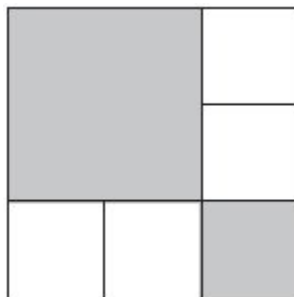
What fraction of this diagram is shaded?





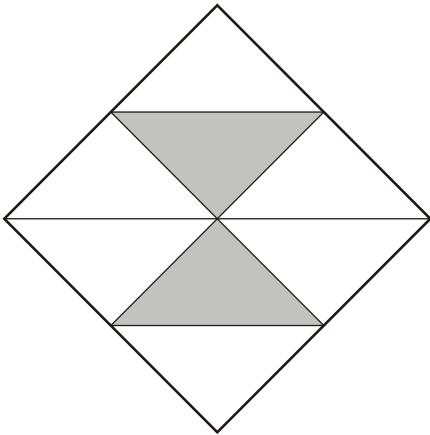
2. The diagram is made of squares.

What fraction of the diagram is shaded?





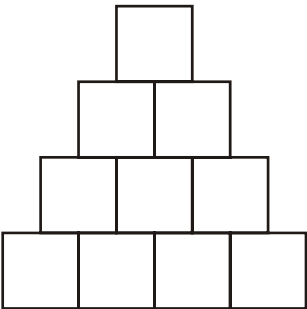
3. Here is a square.



What fraction of the square is shaded?

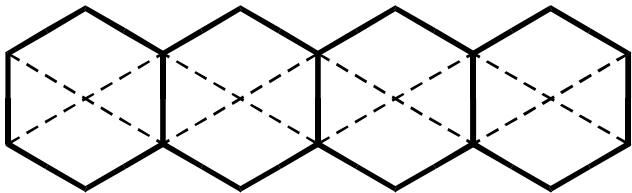


4. Shade $\frac{1}{5}$ of this shape.



5. This diagram shows four regular hexagons.

Shade in **one third** of the diagram.

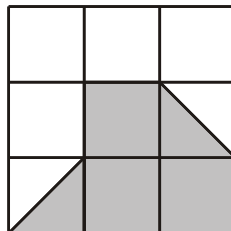
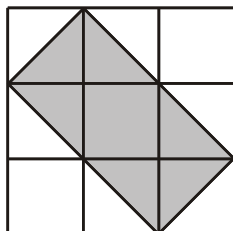
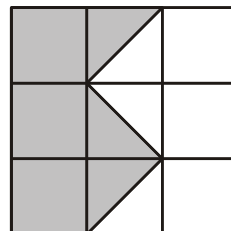
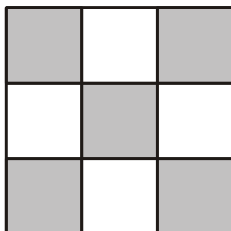
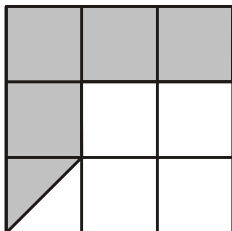


6.. Here are five diagrams.

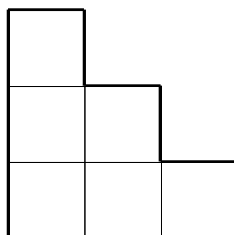
Look at each one.

Put a tick (✓) on the diagram if exactly $\frac{1}{2}$ of it is shaded.

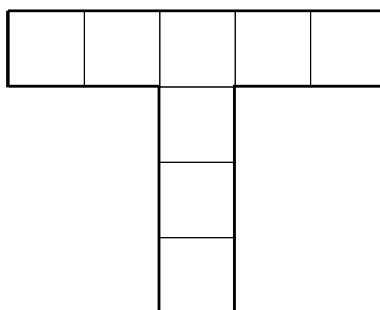
Put a cross (✗) if it is not.



7. Shade **one third** of this shape.

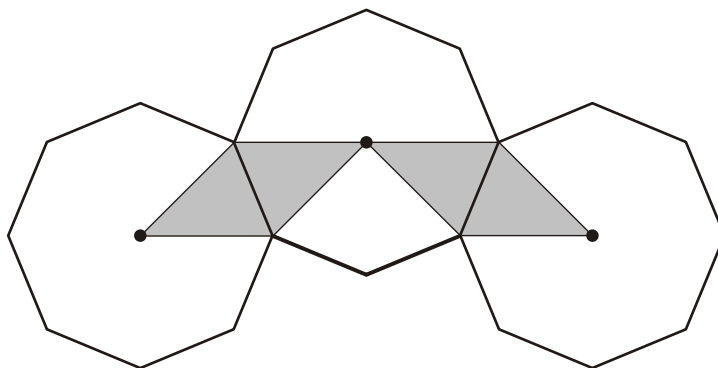


Shade **one quarter** of this shape.

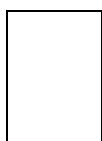


8. The diagram shows three regular octagons joined together.

There is a dot at the centre of each octagon.



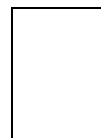
What fraction of the diagram is shaded?



9. Stefan has a bag that contains 3 blue marbles and 5 red marbles only.

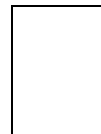


What fraction of the marbles in the bag are blue?



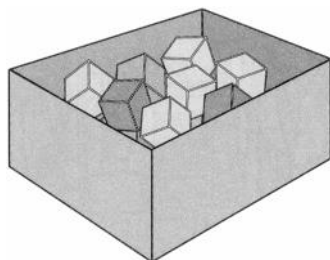
Stefan adds one blue marble and one red marble to the bag.

What fraction of the marbles in the bag are blue now?



10. There are 24 coloured cubes in a box.

Three-quarters of the cubes are red,
four of the cubes are blue
and the rest are green.



How many **green** cubes are in the box?



Show
your **method**.
You may get
a mark.



One more **blue** cube is put into the box.

What fraction of the cubes in the box are **blue** now?

