

Does it Look the Same?

Question 1:

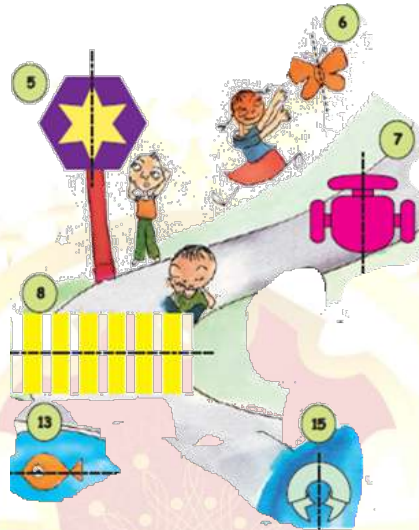
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Which shapes are divided into two mirror halves by the dotted line?



Answer:

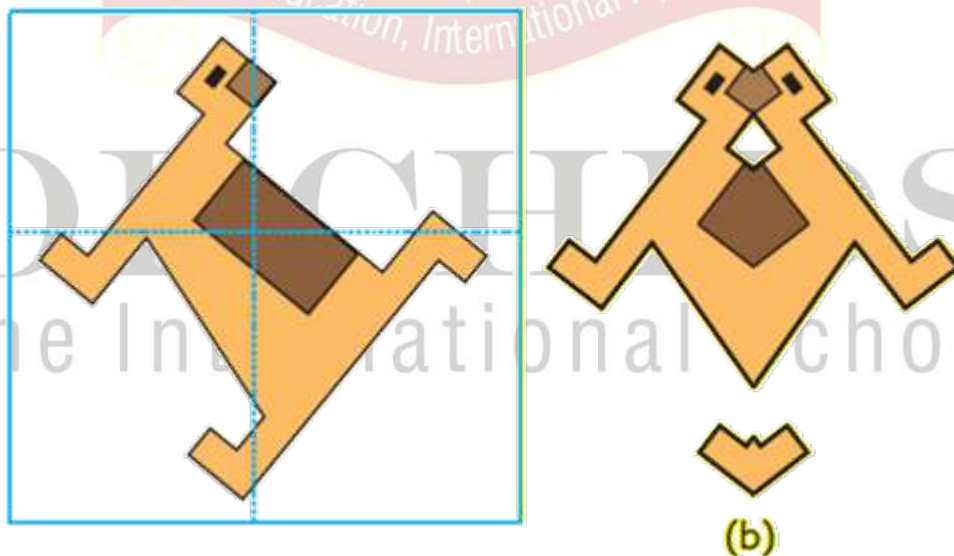
Observe the given shapes. Identify the shapes that are divided by the dotted line into two identical halves. The correct answer is:



Question 2:

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Look at the figure in the white box. On which of the dotted lines will you keep the mirror so that you get shape (b)? Also tell which part of the picture will be hidden when we keep the mirror on the dotted line.



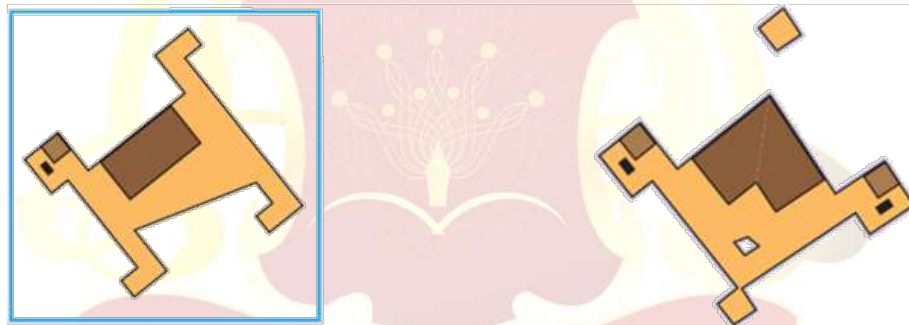
Answer:

To get the image (b) you need to place the mirror on the vertical dotted line. The part of the picture to the right of the dotted line will be hidden.

Question 3:

Now make a line on the white box to show where you will keep the Mirror Games mirror to get the picture next to it.

a)



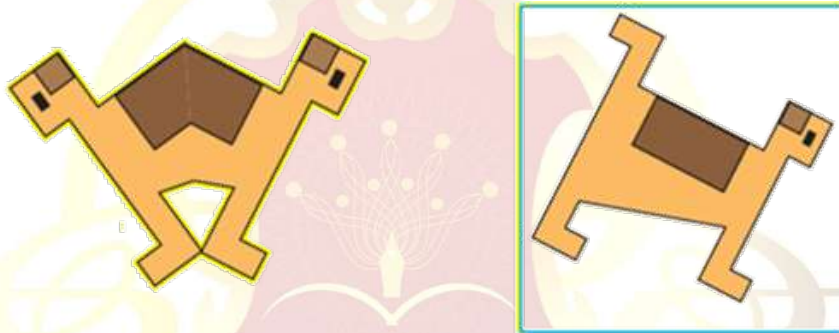
b)



c)



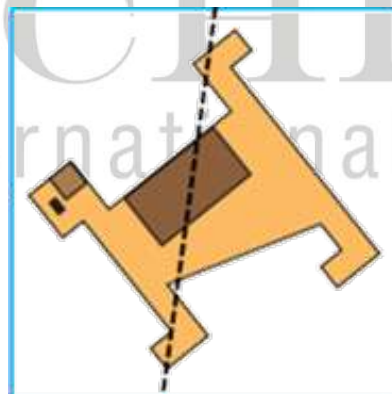
d)



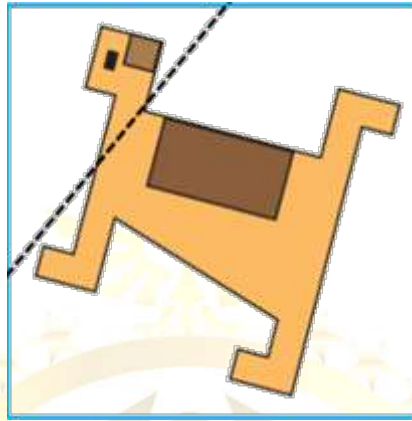
Answer:

Draw a dotted line in the picture given in the white box in such a way that the part of the picture and its mirror image make the picture given next to the white box.

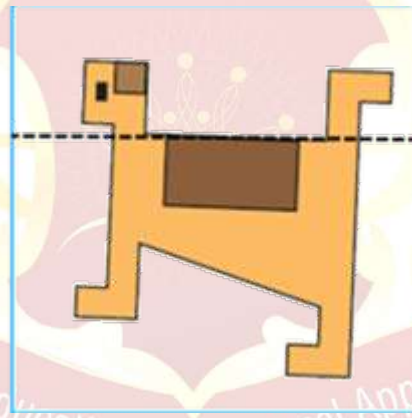
a)



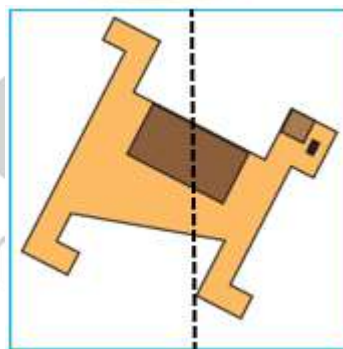
b)



c)



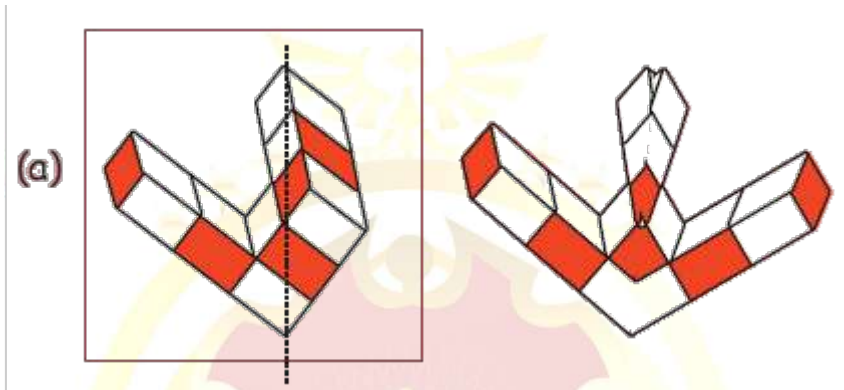
d)



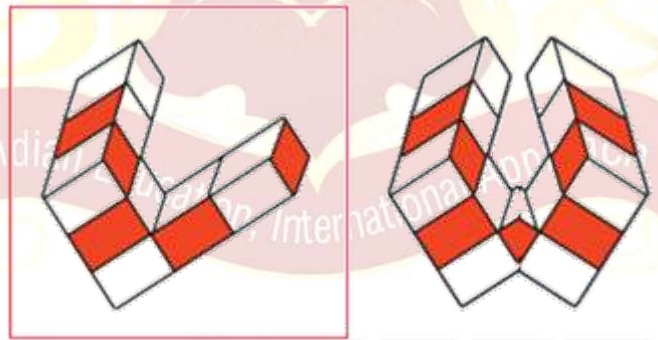
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Question 4:

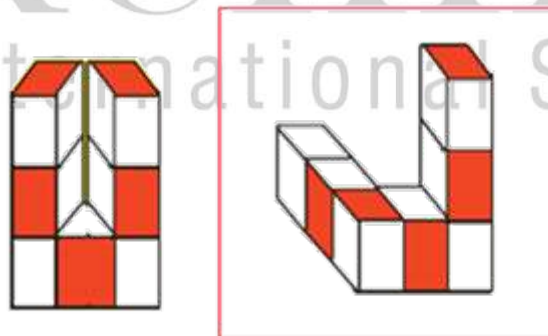
Venky has made a red and white shape. Make a line on the white box where you will keep a mirror to get that shape. Look at how the line is drawn in the first box to get the picture next to it.



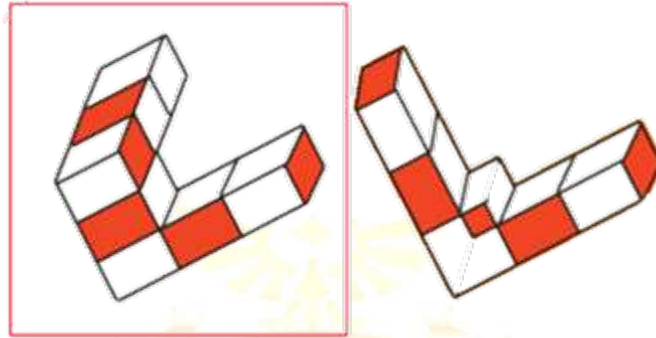
b)



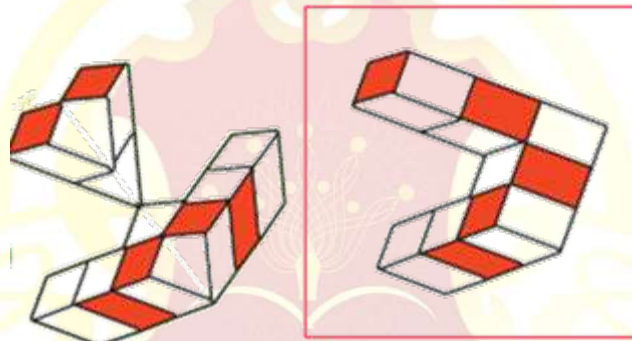
c)



d)



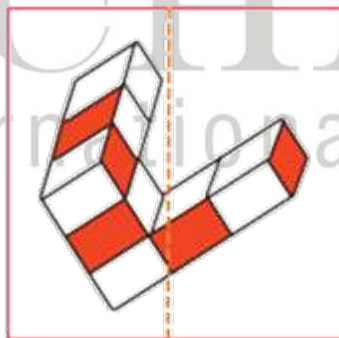
e)



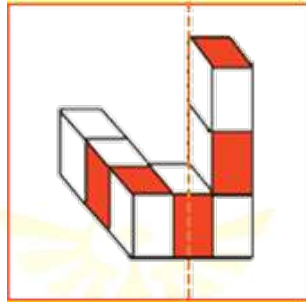
Answer:

Draw a dotted line on the shape given in the white box in such a way that the part of the shape and its mirror image make the shape given next to the white box.

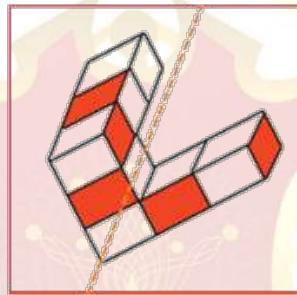
b)



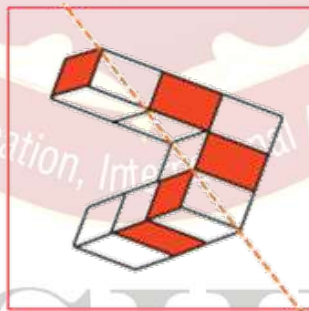
c)



d)



e)



Question 5:

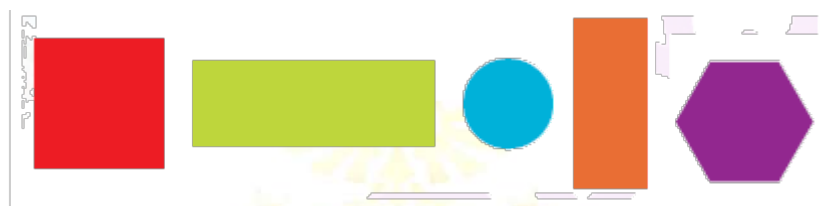
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Guess which of the shapes below would look the same after half a turn.



Answer:

Guess and answer. Following shapes will look the same after half a turn.



Question 6:

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Find out which letters in the English alphabet look the same after half a turn.

Answer:

H, I, N, O, S, X, and Z are the only letters in the English alphabet that look the same after half a turn.

Question 7:

Which of these English words reads the same on half a turn?

ZOOM, MOW, SWIMS, SIS, NOON

Answer:

MOW, SWIMS, SIS, and NOON read the same after half a turn.

Question 8:

Give half a turn to the numbers from 0 to 9. Find which of them still look the same.

Answer:

0, 1, and 8 look the same after half a turn.

Question 9:

Think of all 2, 3 and 4 digit numbers which look the same on half a turn.

Answer:

Following are the numbers that look the same after half a turn.

2-digit numbers: 11 and 88.

3-digit numbers: 101, 111, 808, 888, 181, and 818.

4-digit numbers: 1001, 1111, 8008, 8118, and 1881

Question 10:

Which among the following pictures will look the same on half a turn?



Answer:

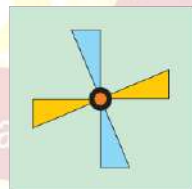
The pictures that will look the same after half turn are marked (✓).



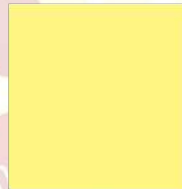
Question 11:

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Will this fan also look the same after $\frac{1}{4}$ turn? Draw in the yellow box.



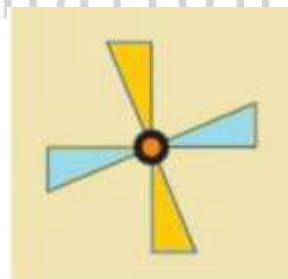
Before turning it



After $\frac{1}{4}$ turn

Answer:

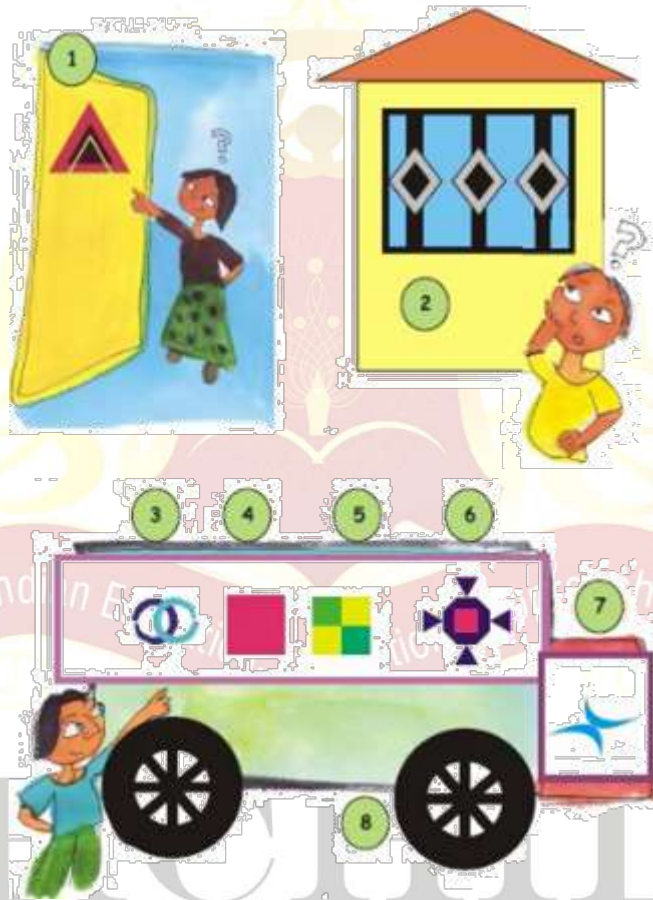
The fan will not look the same after $\frac{1}{4}$ turn. Following is the drawing of the fan after $\frac{1}{4}$ turn.



Question 12:

a) Among the following shapes, find out which ones would look the same after $\frac{1}{4}$ turn. Put a (✓).

b) Put a (×) on the shape that will not look the same after half a turn.



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Answer:

The correct answer is:



Question 13:

Try and change the shapes in such a way that the new shape remains the same on giving it half a turn.



Answer:

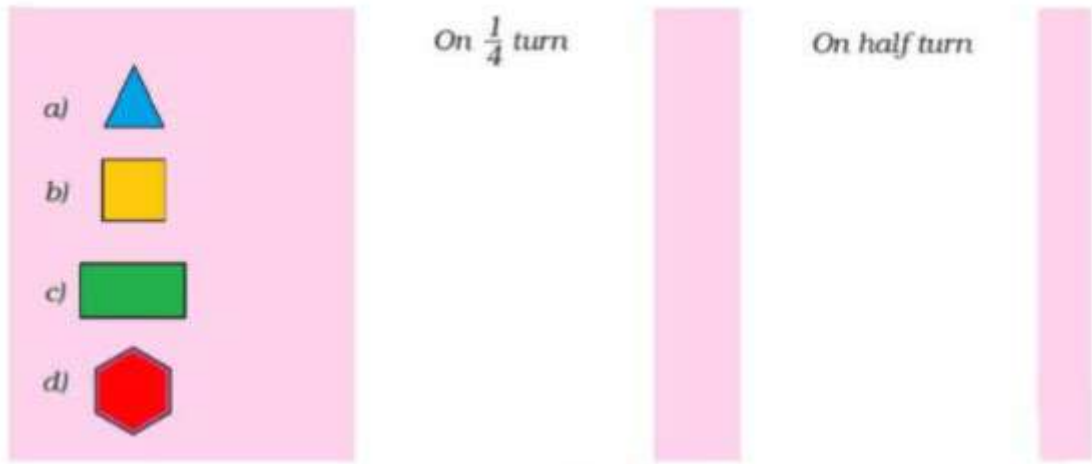
The correct answer is:



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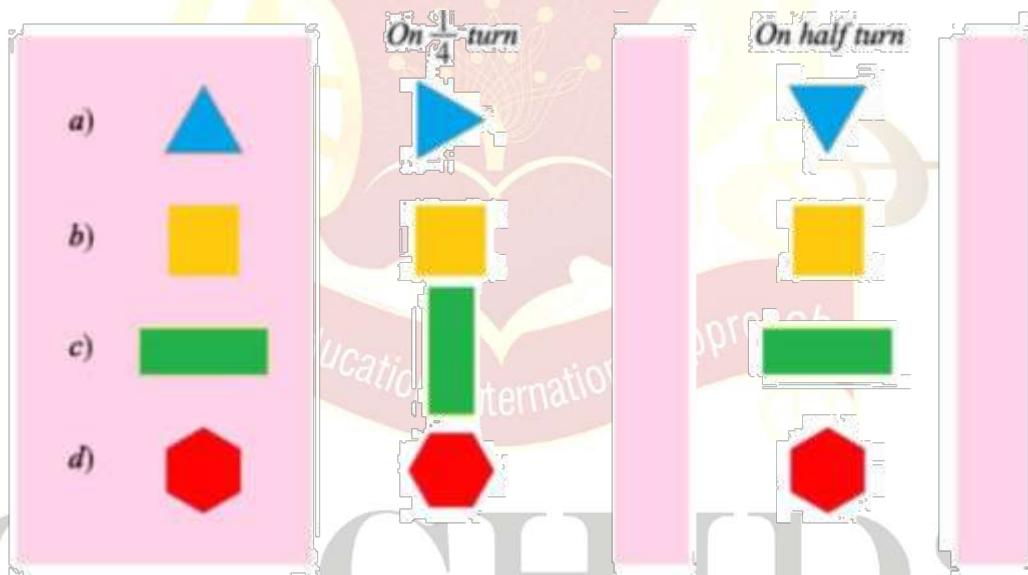
Question 14: (Page 84)

Draw what the following shapes would look like on $\frac{1}{4}$ turn and half a turn.



Answer:

The correct answer is:



Question 15:

Which of the above shapes do not look the same on $\frac{1}{4}$ turn? Which shapes do not look the same on a $\frac{1}{2}$ turn?

Answer:

On $\frac{1}{4}$ turn, images (a), (c), and (d) do not look the same.

On $\frac{1}{2}$ turn, image (a) does not look the same.

Question 16:

Which fan will look the same on a $\frac{1}{3}$ turn?



Answer:

The fan shown as picture (a) will look the same on a $\frac{1}{3}$ turn.

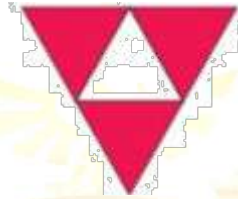
Question 17:

Draw the shape after $\frac{1}{3}$ turn.



Answer:






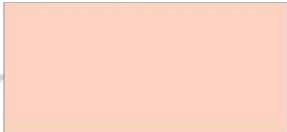



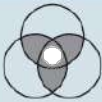
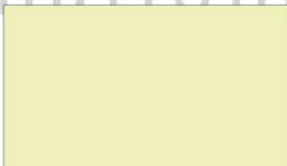

The shape will look the same after $\frac{1}{3}$ turn.



Question 1:

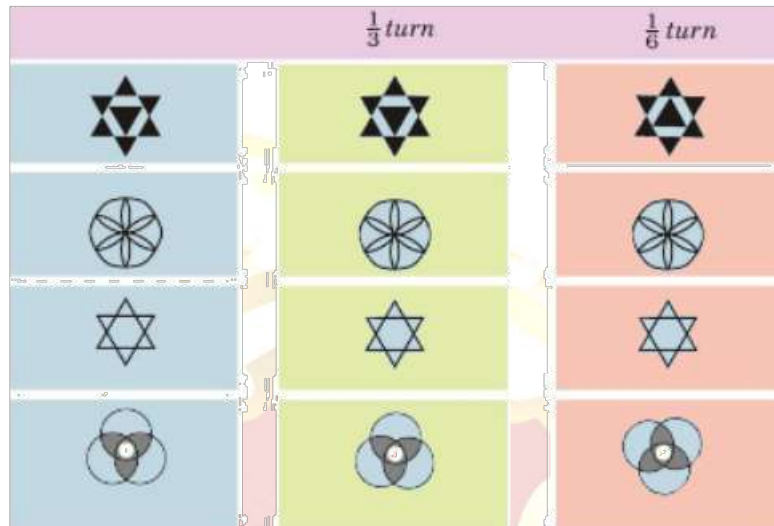
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Look at the following shapes. Draw how they will look like on $\frac{1}{3}$ and $\frac{1}{6}$ turn.

	$\frac{1}{3}$ turn	$\frac{1}{6}$ turn
		
		
		
		

Answer:

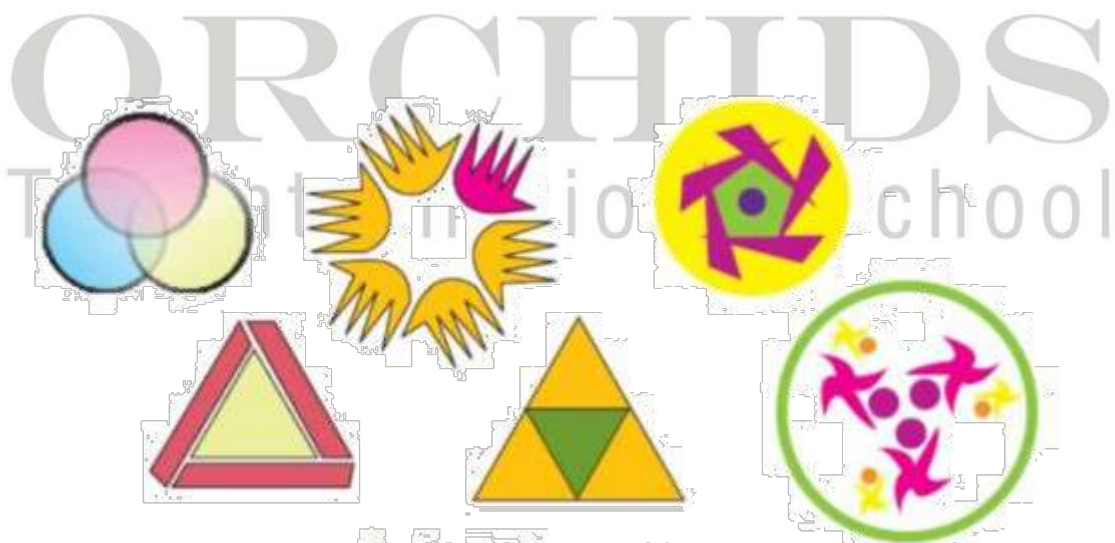
The correct answer is:



Question 2:

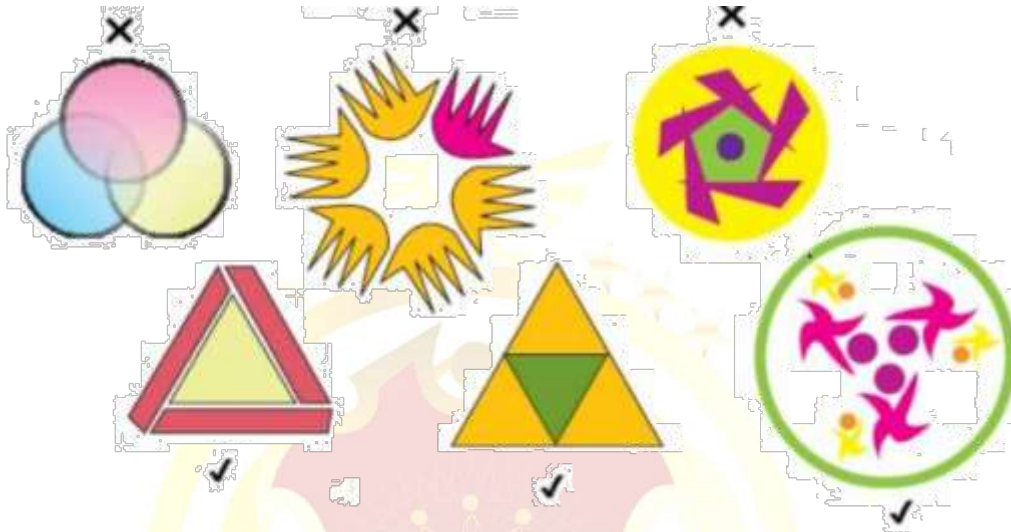
a) Find out which of these figures look the same on turn. Mark them with (✓)

b) Which are the ones that will not look the same after $\frac{1}{3}$ turn? Mark them with (×)



Answer:

The correct answer is:



Question 3:

Try and change the shapes below in such a way that they look the same on $\frac{1}{3}$ turn.



Answer:

The correct answer is:



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