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**CBSE Class 5 Mathematics**  
**NCERT Solutions**  
**CHAPTER-5**  
**DOES IT LOOK THE SAME**

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**1. Find out which letters in the English alphabet looks the same after a turn.**

**Ans.** The letters in English alphabet which look the same after a turn are H, I, N, O, S, X and Z.

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

**ZOOM, MOW, SWIMS, SIS, NOON**

**Ans.** The English words MOW, SWIMS, SIS AND NOON read the same on half a turn.

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

**Ans.** The numbers 0, 1 and 8 look the same after giving a turn to them.

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

**Ans.** All 2, 3 and 4 digit numbers which look the same on half a turn are:

2-digit numbers: 11, 88

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

4-digit numbers: 1001, 1111, 1881, 8008, 8118, 8888

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

**Ans.** The following pictures will look the same on half a turn.



**6. Have you ever seen a windmill? What is it used for?**

**Ans.** Yes, I have seen a windmill. It is a mill turned by the wind. In it the wind turns a set of vanes mounted on a horizontal shaft, the rotation of which transmitted by gearing to working machinery. It is used for grinding corn, pumping water, street light and powering light industry.

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**7. Does you windmill look the same on  $\frac{1}{4}$  of a turn?**

**Ans.** Yes, the windmill look the same on  $\frac{1}{4}$  of a turn.

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**8. Does it look the same on half a turn? Discuss.**

**Ans.** Since  $\frac{1}{4}$  of a turn +  $\frac{1}{4}$  of a turn means half of a turn. So it looks the same on half a turn also.

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**9. Does the fan look the same on  $\frac{1}{4}$  turn?**

**Ans.** Yes, the fan looks the same on  $\frac{1}{4}$  turn.






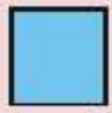






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**10. Draw what the following shapes would look like on  $\frac{1}{4}$  turn and half a turn.**



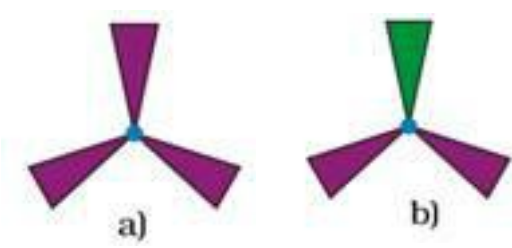
Which of the above shapes do not look the same on  $\frac{1}{4}$  turn? Which shapes do not look the same on  $\frac{1}{2}$  a turn?

Ans.

		On $\frac{1}{4}$ <sup>th</sup> turn	On half turn
(a)			
(b)			
(c)			
(d)			

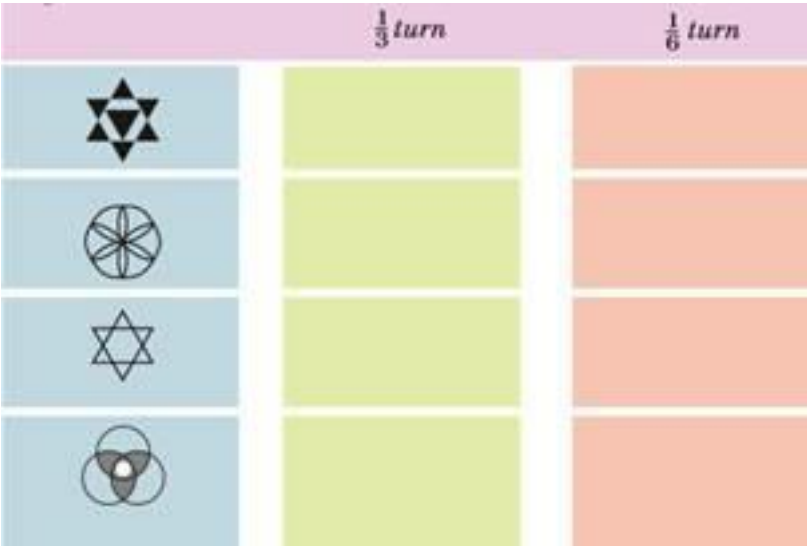
Shapes (a), (c) and (d) do not look the same on  $\frac{1}{4}$  turn. Shape (a) does not look the same on  $\frac{1}{2}$  a turn.

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









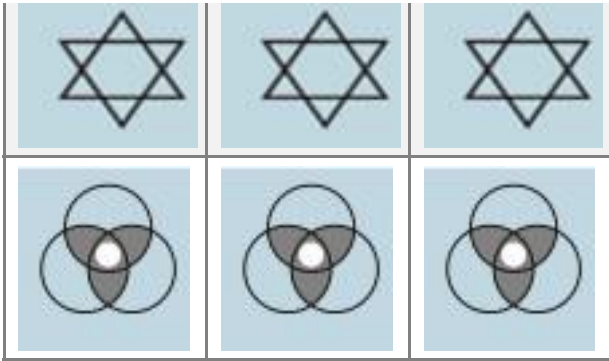
Ans. Fan (a) will look the same on a  $\frac{1}{3}$  turn.

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



Ans. The required shapes are drawn as under:

	1/3 turn	1/6 turn
		
		



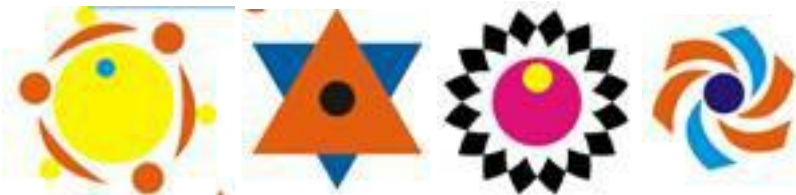
13. Look at the following shapes —

- a) Find out which of these figures look the same on  $\frac{1}{3}$  turn. Mark them with (✓).
- b) Which are the ones that will not look the same after  $\frac{1}{3}$  turn? Mark them with (✗).
- c) Try and change the shapes below in such a way that they look the same on  $\frac{1}{3}$  turn.

Ans. (a) Row 2<sup>nd</sup>: 1st → (✓), 2nd → (✓), 3rd → (✓)

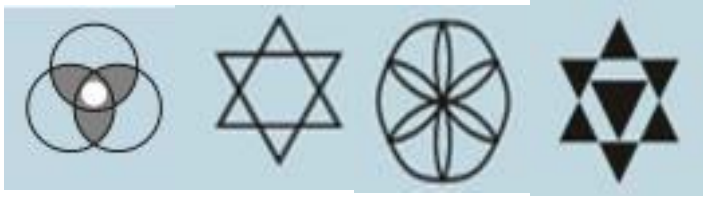
(b) Row 1<sup>st</sup>: 1st → (✗), 2nd → (✗), 3rd → (✗).

(c) Given shapes are changed as under so that they may look the same on  $\frac{1}{3}$  turn.



14. Draw some shapes which will look the same after  $\frac{1}{3}$  turn.

Ans. The following shapes will look the same after  $\frac{1}{3}$  turn.



15. Draw some shapes which will look the same after  $\frac{1}{6}$  turn.

**Ans.** The following shapes will look the same after  $\frac{1}{6}$  turn.

