A. Tick (✓) the correct answer.

1. This command is used as a shortcut in place of writing the repeated commands.

   a. Repeat   b. Forward   c. Right

2. A regular polygon of 6 sides is called a

   a. hexagon.   b. heptagon.   c. pentagon.

3. What is the total number of turns when the turtle makes a trip along the sides of a polygon coming back to its position?

   a. 360 degrees   b. 60 degrees   c. 180 degrees

4. In this repeat command REPEAT 5 [FD 40 RT 360 /5] the number of sides are

   a. 5.   b. 40.   c. 360.

B. Fill in the blanks.

1. In a regular polygon, the number of ___Sides___ is equal to the number of angles.

2. An ___Octagon___ is a eight-sided polygon.

3. To draw a bigger square, the number after ___FD___ should be increased.

4. A ___Circle___ is a polygon with 36 sides.

5. A ___REPEAT___ command can be used within another REPEAT command.

chapter - 7

[The turtle repeats]

© Answer these questions:

① How is the REPEAT command useful? Give an example.

Ans: Repeat command is a shortcut used in stead of writing the repeated commands

Example: To draw a square Set of commands we can write

FD 100 RT 90
FD 100 RT 90
FD 100 RT 90
FD 100 RT 90

If we use Repeat Command:

REPEAT 4 [FD 100 RT 45]
or
REPEAT 4 [FD 100 RT 360/4]

(2) What do you mean by total turtle trip?

ANS: when the turtle takes a total turn of 360 degrees. i.e called total turtle trip.

③ write the commands to draw a hexagon with each side equal to 40 turtle steps.

Ans: REPEAT 6 [FD 40 RT 360/6]

→ [Hexagon]

④ How can you draw a circle using a REPEAT command?

Ans: REPEAT 36 [FD 10 RT 360/36]

⑤ what is the use of nested REPEAT command? — Give an example.

Ans: Use of nested REPEAT command:

* If same type of command is repeated several time
* It is to draw complicated design.

* It is nothing but one REPEAT command inside another REPEAT command.

Example:

REPEAT 4 [REPEAT 3 [FP 50 RT 360/3]
RT 360/4]

Practice Question → : [ch-7]

(A) Make word :

① HEGONXA ——

② OCTNOGA ——

③ PETNNOG ——

④ POGNOYL ——

⑤ DENOGAC ——

(B) Match the following :

① Pentagon   ⓐ Turtle turn
                        4 times

② Hexagon   ⓑ Turning $360°$

③ Square   ⓒ closed figure

④ Total   ⓓ Number of
   turtle trip   angles $= 5$

⑤ Regular   ⓔ 6 sides
   polygon

— o —

© write Repeat Command

① Circle

② Square

③ Pentagon

④ Hexagon

Ⓓ **write True/ False [T/F]:**

① To draw a bigger square, the number after FD command should be increased [T]

② A Pentagon is a polygon with 36 sides [ ]

③ A total turn of 360 degrees is Total Turtle TRIP [ ]

④ To draw a square the turtle turns 90° [ ]

⑤ In a regular polygon only all sides are of equal length [ ]

——o——

02/02/22

class work

① Regular polygon

② Repeat command

③ Nested Repeat command

④ Total turtle trip

write on your own Book from in All keywords and Let us Recall

⑤ How will you save the picture you draw in logo
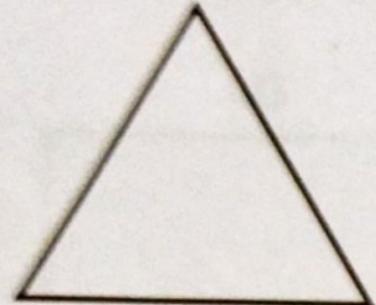
Ans: we save it by
Bitmap Menu ⟶ Save option

— o —

Fig 7.2 [Practice] ⟶ Page 60

Tick (✓) the correct statements and put a cross (✗) against the wrong ones.
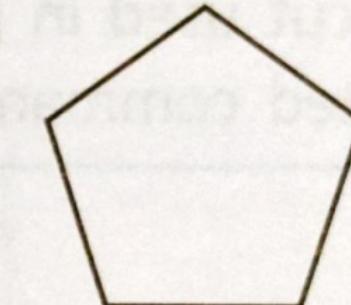
1. The REPEAT command is used to repeat a set of commands. ✓

2. In a regular polygon the number of sides is not equal to the number of angles. ✗

3. A decagon is a nine-sided polygon. ✗

4. To draw a square the turtle has to turn four times. ✓

5. The REPEAT command can be used to draw regular polygons. ✓
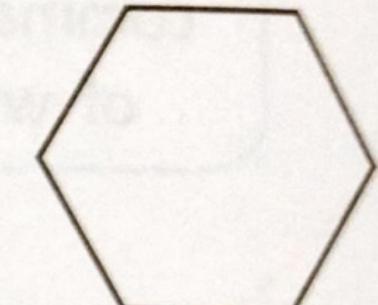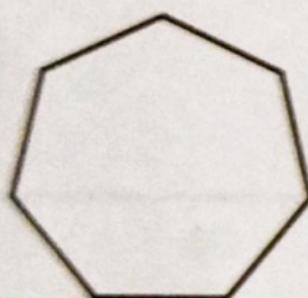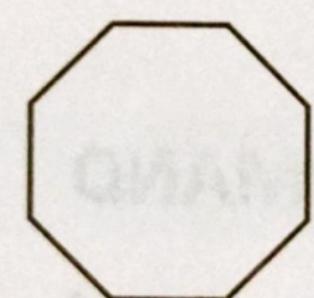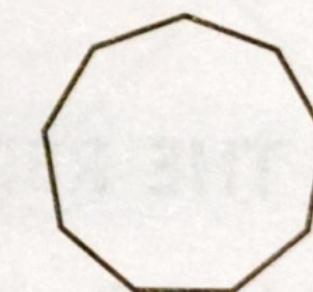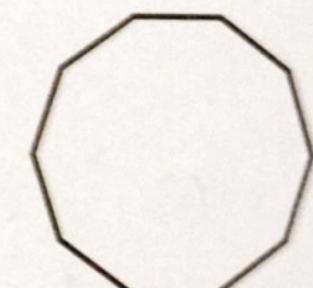
|			
Equilateral Triangle (3 sides)	Square (4 sides)	Pentagon (5 sides)	Hexagon (6 sides)
Heptagon (7 sides)	Octagon (8 sides)	Nonagon (9 sides)	Decagon (10 sides)