

1). Which type of thread is used in the screw jack?

- (A) Vee thread
- (B) Acme thread
- (C) Knuckle thread
- (D) Square thread

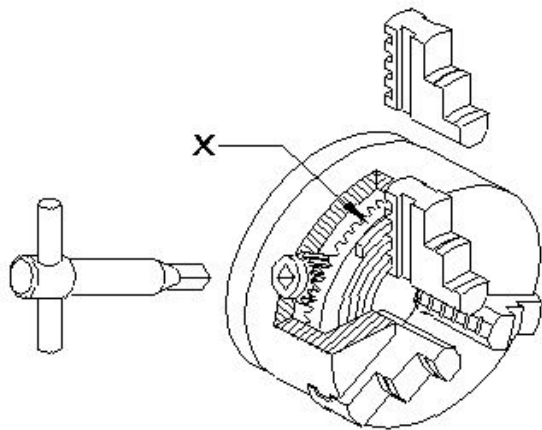
Correct Answer: D

2). Which angle of the tool prevents while parting from getting jammed in the groove and causes breakage?

- (A) Side rake angle
- (B) Side relief angle
- (C) Side clearance angle
- (D) Front clearance angle

Correct Answer: B

3). What is the name of the part marked as 'x' shown in the figure?



- (A) Body
- (B) Back plate
- (C) External jaw
- (D) Crown wheel

Correct Answer: D

4). What happens if the tool is not set to the correct centre height while facing?

- (A) Convex face
- (B) Concave face
- (C) Pip left in the centre
- (D) Rough surface on the face

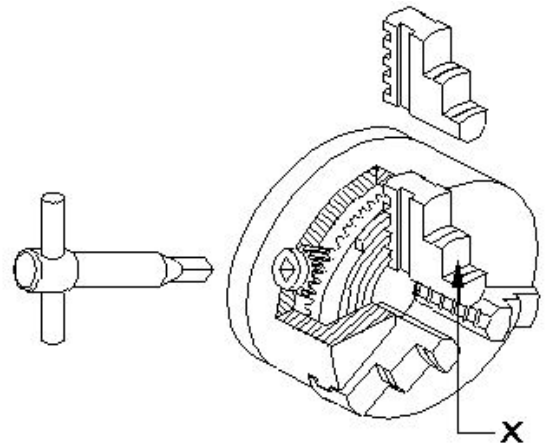
Correct Answer: C

5). Which change gear is required to cut 3 mm pitch on a workpiece in a lathe having a lead screw of 6 mm pitch?

- (A) Driver - 60 teeth, Driven - 120 teeth
- (B) Driver - 66 teeth, Driven - 44 teeth
- (C) Driver - 44 teeth, Driven - 66 teeth
- (D) Driver - 120 teeth, Driven - 60 teeth

Correct Answer: A

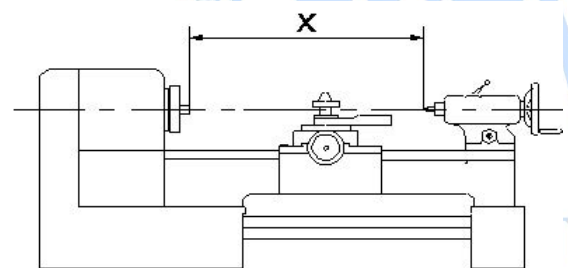
6). What is the name of the part marked as 'X' shown in the figure?



- (A) Body
- (B) Back plate
- (C) Jaw
- (D) Crown wheel

Correct Answer: C

7). What is the name of the specification marked as 'x' shown in the figure?



- (A) Length of the bed
- (B) Centre height of lathe
- (C) Length between centre
- (D) Swing diameter

Correct Answer: C

8). Which property of the lubricant has the ability to flow if poured?

- (A) Flash point
- (B) Pour point
- (C) Fire point
- (D) Viscosity

Correct Answer: B

9). How many types of bed ways are in the centre lathe machine?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

Correct Answer: B

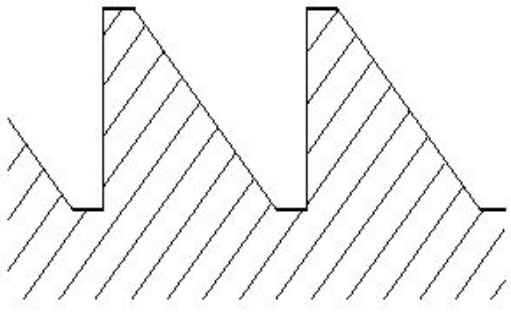
10). Why four jaw chuck is preferred over three jaw chuck?

- (A) Only suitable for cylindrical jobs
- (B) Heavy cuts can be given

- (C) Less setting time and skill required
- (D) Only suitable for light weight jobs

Correct Answer: B

11). What is the name of the thread shown in the figure?



- (A) Worm thread
- (B) knuckle thread
- (C) Square thread
- (D) Buttress thread

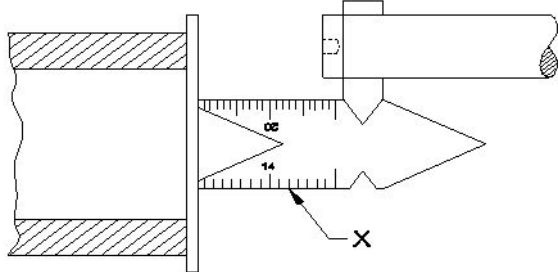
Correct Answer: D

12). What is the purpose of back gear unit in the lathe machine?

- (A) To reduce the spindle speed
- (B) To increase the spindle speed
- (C) To quickly change spindle speed
- (D) To avoid abnormal impact on spindle

Correct Answer: A

13). What is the name of the gauge marked as 'x' shown in the figure?



- (A) Feeler gauge
- (B) Centre gauge
- (C) Screw pitch gauge
- (D) Standard wire gauge

Correct Answer: B

14). Calculate spindle speed for a turning dia 40 mm cast iron rod, if the cutting speed is 15 m/min.

- (A) 9.4 rpm
- (B) 0.3 rpm
- (C) 9.3 rpm
- (D) 9.4 rpm

Correct Answer: A

15). What is the vertical distance of the element of screw thread from crest to the root?

- (A) Lead
- (B) Flank
- (C) Pitch
- (D) Depth

Correct Answer: D

16). What happens if the carriage is not locked while facing?

- (A) Correct face
- (B) Convex face
- (C) Concave face
- (D) Pip left in the centre

Correct Answer: B

17). What operation is performed if the tailstock centre is offsetted from the head stock while working between centres?

- (A) Parallel turning operation
- (B) Step turning operation
- (C) Threading operation
- (D) Taper turning operation

Correct Answer: D

18). What is the function of a lathe bed?

- (A) To locate tool post
- (B) To locate tailstock spindle
- (C) To provide slide-ways
- (D) To locate spindle motor

Correct Answer: C

19). What is the defect caused by pip left in the centre of the job after facing?

- (A) Tool not set to the correct centre height
- (B) Blunt cutting edge
- (C) Low feed rate
- (D) Tool over hanging

Correct Answer: A

20). What is the advantage of cutting fluid in turning operation?

- (A) Will give poor surface finish
- (B) Increases the tool wear
- (C) Increases the corrosion rate
- (D) Cools the tool and workpiece

Correct Answer : D

21). What is the purpose of top slide in lathe?

- (A) Supports tool post with cutting tool
- (B) Provides cross movement for the tool
- (C) To hold drill
- (D) To support the lengthy works

Correct Answer : A

22). How to prevent the tool from rubbing against the work surface in metal cutting process?

- (A) Decrease the rake angle
- (B) Increase the rake angle
- (C) Increase the clearance angle

(D) Decrease the tool wedge angle

Correct Answer : C

23 ). What is the cause of a drilled hole being shifted from the centre of the job on a lathe?

(A) Head and tail stocks not aligned

(B) High spindle speed

(C) Low feed

(D) Blunt drill

Correct Answer : A

24 ). What is the maximum swivelling angle of the compound rest in the lathe machine?

(A) 90°

(B) 180°

(C) 220°

(D) 360°

Correct Answer : D

25 ). Which type of oil is used for extreme cutting conditions of modern tools?

(A) Lard oil

(B) Soluble mineral oil

(C) Straight mineral oil

(D) Sulphurized oil

Correct Answer : D

