

# METAL FORMING PROCESSES

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Time left 0:20:58

Question 22  
Not yet answered  
Marked out of 1.00  
Flag question

A change in a part thickness is desirable in the "Roll-Forming" operations

Select one:

- True
- False

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Time left 0:27:01

Question 17  
Not yet answered  
Marked out of 1.00  
Flag question

Using the tensile strength instead of the shear strength to calculate the shearing force would decrease that force by 30%

Select one:

True

False

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Time left 0:20:22

Question 23  
Not yet answered  
Marked out of 1.00  
Flag question

Plain carbon steel with carbon content of 0.1wt.% is considered a good sheet-metal material

Select one:

- True
- False

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Time left 0:28:10

Question 16  
Not yet answered  
Marked out of 1.00  
Flag question

In extrusion, the friction portion between the billet and the die is accounted for in the Johnson's equation

Select one:

True

False

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Time left 0:19:46

Question 24  
Not yet answered  
Marked out of 1.00  
Flag question

In rolling, to get a high quality product and to ensure higher lifetime for the rollers, both the woking and backup rolls must be made of special alloyed steel

Select one:  
 True  
 False

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Time left 0:25:51

Question 19  
Not yet answered  
Marked out of 1.00  
Flag question

Pointing of the initial rod used for drawing can be done using the radial forging process

Select one:

True

False

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Time left 0:41:07

Question 7  
Not yet answered  
Marked out of 1.00  
Flag question

To satisfy its function, a gravity-drop hammer must be equipped with a pneumatic compressor

Select one:

- True
- False

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Time left 0:36:57

Question 11  
Not yet answered  
Marked out of 1.00  
Flag question

To prevent the wrinkling effect in deep-drawn sheets, the holder must exert a force higher than the maximum punch force

Select one:

True

False

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Time left 0:18:33

Question 26  
Not yet answered  
Marked out of 1.00  
Flag question

In the impression-die forging process, the formation of the flash increases the friction and decreases the pressure within the die cavity

Select one:

True

False

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Time left 0:25:33

Question 20  
Not yet answered  
Marked out of 1.00  
Flag question

Fine blanking processes are used to remove burrs from a previously blanked product

Select one:

True

False

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Time left 0:36:06

Question 12  
Not yet answered  
Marked out of 1.00  
Flag question

Wrinkling and tearing are defects in deep-drawn products that are directly related to the blankholder and drawing forces

Select one:

True

False

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Time left 0:01:31

Question 37  
Not yet answered  
Marked out of 1.00  
Flag question

All heading operations can be classified as open-die forging processes

Select one:

True

False

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Time left Time is up!

Question **38**  
Not yet answered  
Marked out of 1.00  
Flag question

In deep-drawing processes, wrinkling may cause rupture of the workpiece

Select one:  
 True  
 False

Finish attempt ...

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Time left 0:15:47

Question 29  
Not yet answered  
Marked out of 1.00  
Flag question

The process "Stretch-forming" always indicates lengthening and bending of a sheet-metal part

Select one:  
 True  
 False

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Time left 0:10:51

Question 31  
Not yet answered  
Marked out of 4.00  
Flag question

A copper wire with a starting diameter of 2.3 mm is drawn through a die with an opening that is 2.0 mm. The entrance angle of the die = 19°. Coefficient of friction at the work-die interface is 0.10. The pure copper has a strength coefficient = 300 MPa and a strain-hardening coefficient = 0.50. The operation is performed at room temperature. Determine the value of the correction factors that accounts of the inhomogeneous deformation.

- a. 1.25
- b. 1.11
- c. 1.44
- d. 1.59
- e. 1.82
- f. 1.51
- g. 1.33

Clear my choice

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Time left 0:38:02

Question 10  
Not yet answered  
Marked out of 1.00  
Flag question

In extrusion, the effect of the too low die angles on the magnitude of the ram force is greater than that of the too high die angles.

Select one:

True

False

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# METAL FORMING PROCESSES

Time left 0:03:08

Question **36**  
Not yet answered  
Marked out of 1.00  
Flag question

In shearing processes one of the blades cuts into the sheet at an inclined angle to minimize the cutting force

Select one:

True

False

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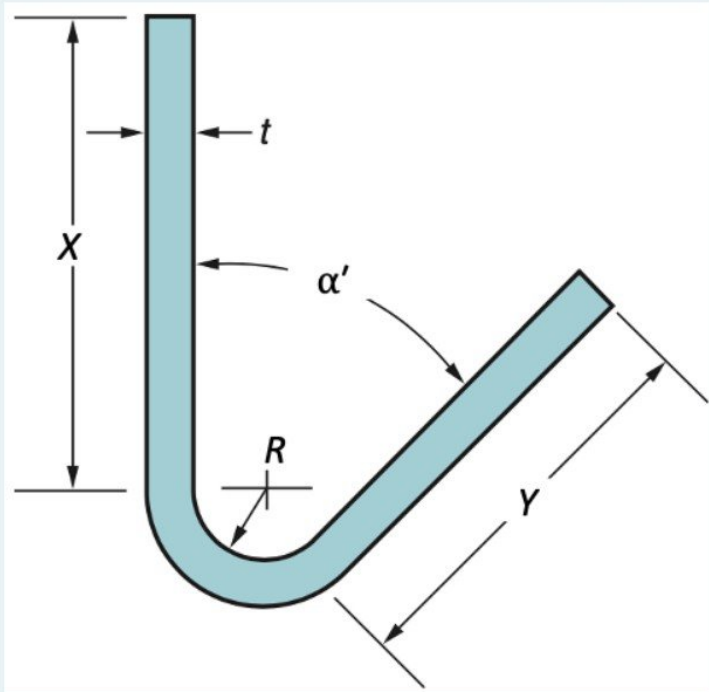
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Time left 0:30:43

Question 14  
Not yet answered  
Marked out of 4.00  
Flag question

A bending operation is to be performed a pure aluminum sheet having a thickness of 3 mm. If  $X = 50$  mm,  $Y = 45$  mm,  $R = 10$  mm and the included angle =  $50^\circ$  (see the figure below), then the blank size required (in mm) is:



- a. 121.1
- b. 124.9

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Time left 0:07:12

Question 33  
Not yet answered  
Marked out of 1.00  
Flag question

In punching operations, the clearance between the punch and die depends on the stock thickness, the material type and its heat-treatment conditions

Select one:  
 True  
 False

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Time left 0:57:04

Question 2  
Not yet answered  
Marked out of 1.00  
Flag question

The region of the drawing die where the final amount of wire reduction is taken is called the bearing surface

Select one:

True

False

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Time left 0:07:12

Question 33  
Not yet answered  
Marked out of 1.00  
Flag question

In punching operations, the clearance between the punch and die depends on the stock thickness, the material type and its heat-treatment conditions

Select one:

True

False

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Time left 0:15:27

Question 30  
Not yet answered  
Marked out of 1.00  
Flag question

Blanking and punching operations have similar tooling sizes, the only difference is where the scrap forms

Select one:

True

False

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Time left 0:05:55

Question 34  
Not yet answered  
Marked out of 1.00  
Flag question

In blanking processes, the die is designed with an angular clearance of about 1 degree to prevent its sticking to the punch

Select one:  
 True  
 False

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Time left 0:08:18

Question 32  
Not yet answered  
Marked out of 1.00  
Flag question

In sheet-metal working processes, the explosive-forming tooling requires the use of capacitors

Select one:

True

False

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Time left 0:56:46

Question 3  
Not yet answered  
Marked out of 1.00  
Flag question

Most open-die and flashless forged products are simple in shape

Select one:

- True
- False

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Time left 0:16:33

Question 28  
Not yet answered  
Marked out of 1.00  
Flag question

In deep-drawing processes, it is preferred for the punch to have a corner radius of zero

Select one:

True

False

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Time left 0:26:11

Question 18  
Not yet answered  
Marked out of 1.00  
Flag question

In addition to other reasons, steel slabs are heated to a high temperature to dissolve nitrides before rolling

Select one:

True

False

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Time left 0:19:01

Question 25  
Not yet answered  
Marked out of 1.00  
Flag question

In direct extrusion, the force requirements decrease as the billet breakthrough into the die

Select one:  
 True  
 False

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Time left 0:59:15

Question 1  
Not yet answered  
Marked out of 1.00  
Flag question

In bending of sheets, a lengthening might occur but the width almost always remains constant

Select one:

True

False

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Time left 0:59:15

Question 1  
Not yet answered  
Marked out of 1.00  
Flag question

In bending of sheets, a lengthening might occur but the width almost always remains constant

Select one:

True

False

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Time left 0:04:09

Question 35  
Not yet answered  
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In the closed-die forging process, sometimes a single hammer stroke is enough to produce the required shape.

Select one:

True

False

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Time left 0:16:57

Question 27  
Not yet answered  
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Flag question

In sheet-metal bending processes, wiping dies may also be used in V-bending processes.

Select one:

True

False

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