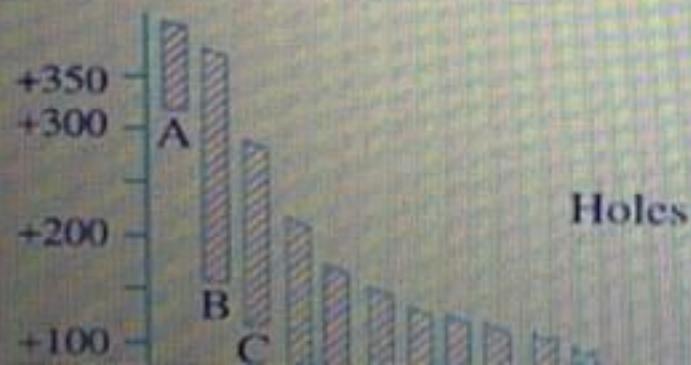


Time left 0:43:37

for a certain shaft, if both the upper deviation and the lower deviation are positive then the fundamental deviation is equal to -----

- ☐ a. the upper deviation
- ☐ b. the lower deviation
- ☐ c. both a and b are feasible
- ☐ d. none of the above is correct

given the following figure for fundamental deviation values for the holes



Time left 0:42:57

Question 5

Not yet
answered

Marked out of
2.00

Flag
question

in the vernier caliper , the size of division on the main scale is always greater than the size of division on the vernier scale, and the difference between the two values is equal to the accuracy of the device.

Select one:

☐ True

☒ False

Question 6

Not yet
answered

Marked out of
2.00

for a certain shaft , if both the upper deviation and the lower deviation are positive then the fundamental deviation is equal to -----

☐ a. the upper deviation

☐ b. the lower deviation

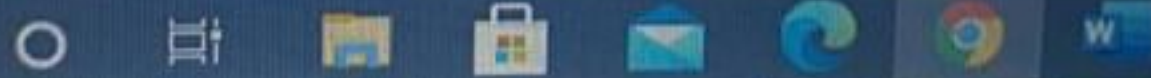
Time left 0:40:5

for a shaft and hole system, if the upper deviation of the hole is equal to (0.01 mm) and its lower deviation is equal to (minus 0.02 mm), then the tolerance of the hole is -----

- ☐ a. 0.01 mm
- ☐ b. minus 0.01 mm
- ☐ c. minus 0.03 mm
- ☒ d. 0.03 mm
- ☐ e. the value depends on the shaft deviations.
- ☐ f. none of the above is correct

Clear my choice

In the following figure , the operator is trying to measure -----



4
ut of

In the following figure, the operator is trying to measure -----



- ☐ a. the major diameter of the thread
- ☐ b. the minor diameter of the thread
- ☐ c. the effective diameter of the thread
- ☐ d. the diameter of the wire

for any shaft and hole system, the basic size of the hole must equal to the basic size of the shaft.

Select one:

☒ True

☐ False



Next



In a shaft and hole system, the tolerance of the hole is always greater than the tolerance of the shaft.

Select one:

- ☐ True
- ☐ False



Question 4

Not yet
answered

Marked out of
2.00

Flag
question

Time left 0:43:29

Finish attempt ...

given the following figure for fundamental deviation values for the holes



if a hole of type H is to be assembled with a shaft of type a, then the type of fit is -----

- ☐ a. clearance
- ☐ b. interference
- ☐ c. transition
- ☐ d. none of the above is correct

Question 4

Not yet
answered

Marked out of
2.00

Flag
question

Time left 0:43:29

Finish attempt ...

given the following figure for fundamental deviation values for the holes



if a hole of type H is to be assembled with a shaft of type a, then the type of fit is -----

- ☐ a. clearance
- ☐ b. interference
- ☐ c. transition
- ☐ d. none of the above is correct

given the following Table for an (S) Type thermocouple

Time left 0:36:23

TABLE 15 Type S Thermocouple — thermoelectric voltage as a function of temperature (°C); reference junctions at 0 °C

5°C

°C	0	1	2	3	4	5	6	7	8	9	10	°C
Thermoelectric Voltage in Millivolts												
-50	-0.236											-50
-40	-0.194	-0.199	-0.203	-0.207	-0.211	-0.215	-0.219	-0.224	-0.228	-0.232	-0.236	-40
-30	-0.150	-0.155	-0.159	-0.164	-0.168	-0.173	-0.177	-0.181	-0.185	-0.190	-0.194	-30
-20	-0.103	-0.108	-0.113	-0.117	-0.122	-0.127	-0.132	-0.136	-0.141	-0.146	-0.150	-20
-10	-0.053	-0.058	-0.063	-0.068	-0.073	-0.078	-0.083	-0.088	-0.093	-0.098	-0.103	-10
0	0.000	-0.005	-0.011	-0.016	-0.021	-0.027	-0.032	-0.037	-0.042	-0.048	-0.053	0
0	0.000	0.005	0.011	0.016	0.022	0.027	0.033	0.038	0.044	0.050	0.055	0
10	0.055	0.061	0.067	0.072	0.078	0.084	0.090	0.095	0.101	0.107	0.113	10
20	0.113	0.119	0.125	0.131	0.137	0.143	0.149	0.155	0.161	0.167	0.173	20
30	0.173	0.179	0.185	0.191	0.197	0.204	0.210	0.216	0.222	0.229	0.235	30
40	0.235	0.241	0.248	0.254	0.260	0.267	0.273	0.280	0.286	0.292	0.299	40

A voltage of 3.427 mV is measured with a type S thermocouple at 23 degree C reference temperature. The voltage of the sensing junction is ----- mV

Answer:

|

----- to the difference between its upper deviation and its lower deviation.

☐ d. none of the above is correct

In the GO and NOT GO system, the GO part is always used to check the maximum metal limit and the NOT GO is always used to check the minimum metal limit

Select one:

- ☐ True
- ☐ False



Next page

Search



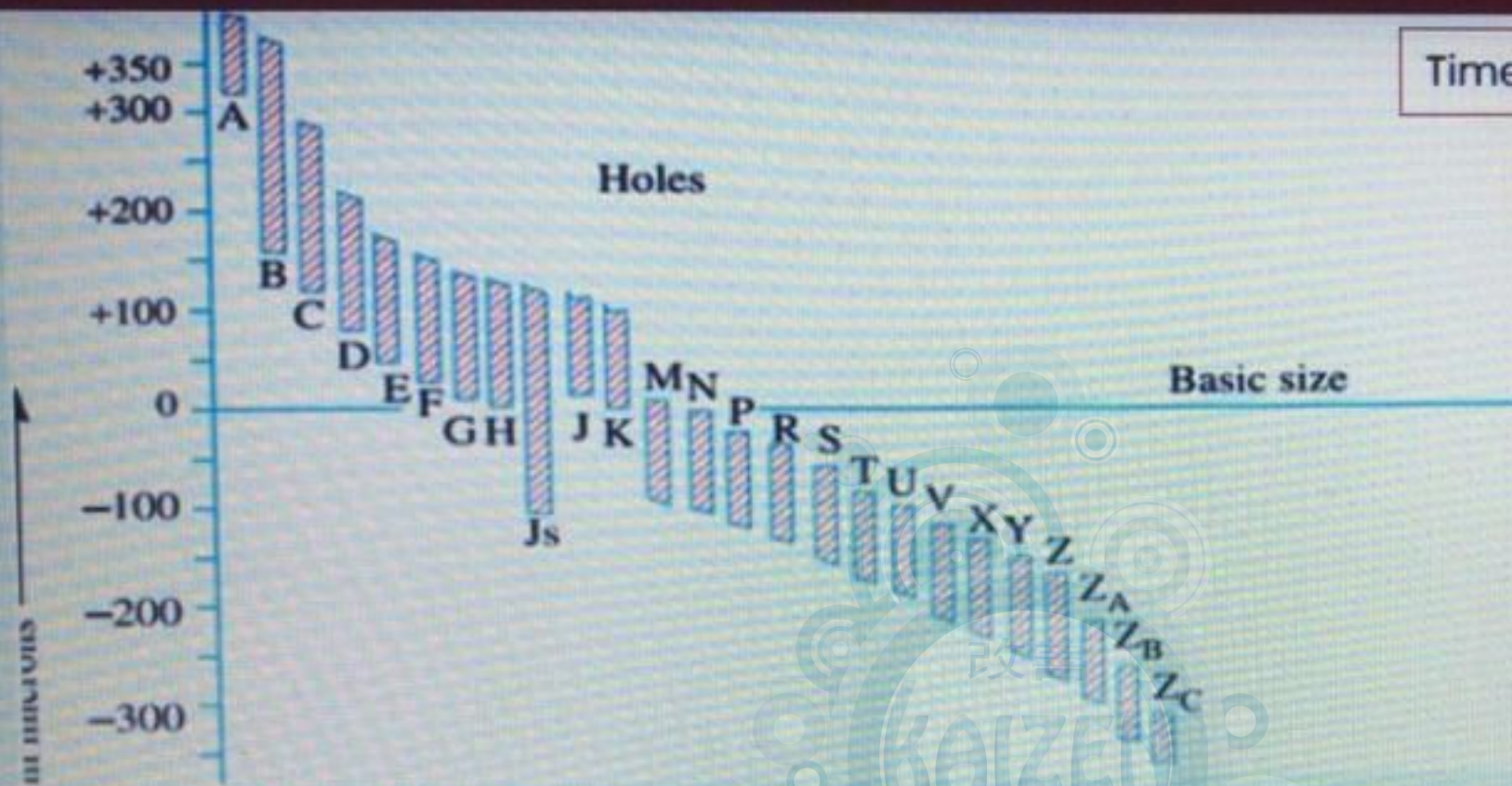
Time left 0:39:10

for a certain shaft, if both the upper deviation and the lower deviation are positive then the fundamental deviation is equal to -----

- ☐ a. the upper deviation
- ☐ b. the lower deviation
- ☐ c. both a and b are feasible
- ☐ d. none of the above is correct

In the GO and NOT GO system, the GO part is always used to check the maximum metal limit and the NOT GO is always used to check the minimum metal limit

Select one:



if a hole of type H is to be assembled with a shaft of type a, then the type of fit is -

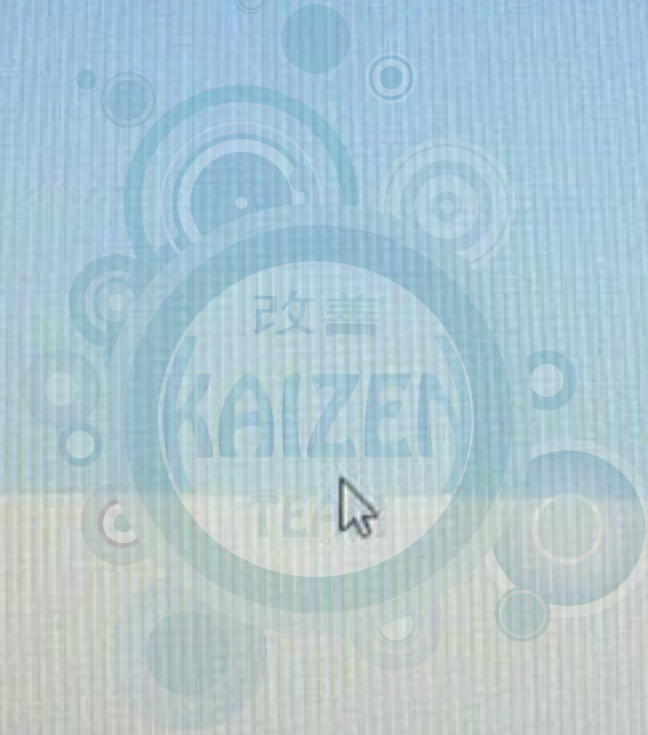
- ☐ a. clearance
- ☐ b. interference
- ☐ c. transition
- ☐ d. none of the above is correct

Clear my choice

There are basically two approaches for measuring the surface roughness is : (1) the comparison, (2) the direct measurements. the former is the simpler but the second is the more accurate.

Select one:

- ☐ True
- ☐ False



Next page

Time left 0:35:11

In thermocouples, the relationship between voltage and temperature is nonlinear

Select one:

- ☐ True
- ☐ False



given the following Table for an (S) Type thermocouple

TABLE 15 Type S Thermocouple — thermoelectric voltage as a function of temperature ($^{\circ}\text{C}$); reference junctions at 0°C

S $^{\circ}$

$^{\circ}\text{C}$	0	1	2	3	4	5	6	7	8	9	10	$^{\circ}\text{C}$
--------------------	---	---	---	---	---	---	---	---	---	---	----	--------------------

Question 3

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Question

the gear in the following figure is an example on -----



- ☐ a. Spur gear
- ☐ b. Herringbone gear
- ☐ c. bevel gear
- ☐ d. none of the above is correct

Clear my choice

In the GO and NOT GO system, the GO part is always used to check the maximum metal limit and the NOT GO is always used to check the minimum metal limit

Select one:

☐ True

☒ False

Next page

here to search



Question 9

Not yet
answered

Marked out of
2.00

Flag
question

In a shaft and hole system, the tolerance of the hole is always greater than the tolerance of the shaft.

Select one:

- ☐ True
- ☒ False

Question 10

Not yet
answered

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2.00

Flag
question

the tolerance of any shaft is equal to the difference between its upper deviation and its lower deviation.

Select one:

- ☒ True
- ☐ False

Question 8

Not yet
answeredMarked out of
2.00Flag
question

Time left 0:35:00

25

Finish attempt ...

given the following Table for an (S) Type thermocouple

TABLE 15 Type S Thermocouple — thermoelectric voltage as a function of temperature ($^{\circ}\text{C}$); reference junctions at 0°C

$^{\circ}\text{C}$	0	1	2	3	4	5	6	7	8	9	10	$^{\circ}\text{C}$
Thermoelectric Voltage in Millivolts												
-50	-0.236											-50
-40	-0.194	-0.199	-0.203	-0.207	-0.211	-0.215	-0.219	-0.224	-0.228	-0.232	-0.236	-40
-30	-0.150	-0.155	-0.159	-0.164	-0.168	-0.173	-0.177	-0.181	-0.186	-0.190	-0.194	-30
-20	-0.103	-0.108	-0.113	-0.117	-0.122	-0.127	-0.132	-0.136	-0.141	-0.146	-0.150	-20
-10	-0.053	-0.058	-0.063	-0.068	-0.073	-0.078	-0.083	-0.088	-0.093	-0.098	-0.103	-10
0	0.000	-0.005	-0.011	-0.016	-0.021	-0.027	-0.032	-0.037	-0.042	-0.048	-0.053	0
0	0.000	0.005	0.011	0.016	0.022	0.027	0.033	0.038	0.044	0.050	0.055	0
10	0.055	0.061	0.067	0.072	0.078	0.084	0.090	0.095	0.101	0.107	0.113	10
20	0.113	0.119	0.125	0.131	0.137	0.143	0.149	0.155	0.161	0.167	0.173	20
30	0.173	0.179	0.185	0.191	0.197	0.204	0.210	0.216	0.222	0.229	0.235	30
40	0.235	0.241	0.248	0.254	0.260	0.267	0.273	0.280	0.286	0.292	0.299	40

A voltage of 3.427 mV is measured with a type S thermocouple at 23 degree C reference temperature. The **voltage** of the sensing junction is ----- mV

Answer:

Time left 0:31:46

for a certain shaft, if both the upper deviation and the lower deviation are positive then the fundamental deviation is equal to -----

- ☐ a. the upper deviation
- ☐ b. the lower deviation
- ☐ c. both a and b are feasible
- ☐ d. none of the above is correct

The reading of this micrometer is ----- mm.

Note: the number of divisions on the thimble is 50 divisions.

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Finis

Question 8

Not yet
answeredMarked out of
2.00Flag
question

Time left 0:35:00

25

Finish attempt ...

given the following Table for an (S) Type thermocouple

TABLE 15 Type S Thermocouple — thermoelectric voltage as a function of
temperature ($^{\circ}\text{C}$); reference junctions at 0°C

$^{\circ}\text{C}$	0	1	2	3	4	5	6	7	8	9	10	$^{\circ}\text{C}$
Thermoelectric Voltage in Millivolts												
-50	-0.236											-50
-40	-0.194	-0.199	-0.203	-0.207	-0.211	-0.215	-0.219	-0.224	-0.228	-0.232	-0.236	-40
-30	-0.150	-0.155	-0.159	-0.164	-0.168	-0.173	-0.177	-0.181	-0.186	-0.190	-0.194	-30
-20	-0.103	-0.108	-0.113	-0.117	-0.122	-0.127	-0.132	-0.136	-0.141	-0.146	-0.150	-20
-10	-0.053	-0.058	-0.063	-0.068	-0.073	-0.078	-0.083	-0.088	-0.093	-0.098	-0.103	-10
0	0.000	-0.005	-0.011	-0.016	-0.021	-0.027	-0.032	-0.037	-0.042	-0.048	-0.053	0
0	0.000	0.005	0.011	0.016	0.022	0.027	0.033	0.038	0.044	0.050	0.055	0
10	0.055	0.061	0.067	0.072	0.078	0.084	0.090	0.095	0.101	0.107	0.113	10
20	0.113	0.119	0.125	0.131	0.137	0.143	0.149	0.155	0.161	0.167	0.173	20
30	0.173	0.179	0.185	0.191	0.197	0.204	0.210	0.216	0.222	0.229	0.235	30
40	0.235	0.241	0.248	0.254	0.260	0.267	0.273	0.280	0.286	0.292	0.299	40

A voltage of 3.427 mV is measured with a type S thermocouple at 23 degree C reference temperature. The **voltage** of the sensing junction is ----- mV

Answer:

The reading of this micrometer is ----- mm.

Note: the number of divisions on the thimble is 50 divisions.



Answer:

7.3

1

Thermocouple Voltage to Temperature Converter

Thermocouple Voltage to Temperature Converter

Thermocouple (mV)

Reference Junction Temperature

Seebeck Coefficient
dV/dT

Standard Limits
of Error

Special Limits
of Error

Temperature

☒ °C

☐ °F

☐ K

Select Thermocouple Type

☐ Type B

☐ Type E

☐ Type J

☐ Type K

☐ Type N

☐ Type R

☒ Type S

☐ Type T

☐ Type C

Calculate

Select
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Question 16

Not yet
answered

Marked out of
2.00

Flag
question

for any shaft and hole system, the basic size of the hole must equal to the basic size of the shaft.

Select one:

☐ True

☐ False



Next page

Type here to search



DELL

Time left 0:28:03

Autocollimator is one of the angular measuring devices and it can be used to measure the error of straightness

Select one:

☐ True

☒ False

In thermocouples, the relationship between voltage and temperature is nonlinear

If an intermediate metal is inserted into a thermocouple circuit at any point , the net voltage will not be affected even though the two junctions introduced by the third metal are at different temperature.

Select one:

- ☐ True
- ☐ False



Next page



Answer:

which of the following is a method for measuring the effective diameter of an external thread.

- ☐ a. one wire method
- ☐ b. two wires method
- ☐ c. three wires method
- ☐ d. all of the above are correct

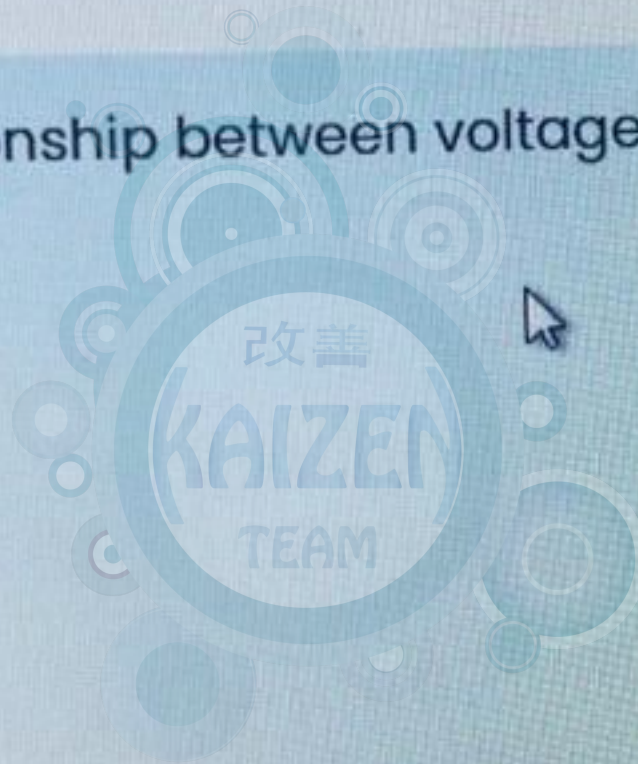
Next page

☒ True
☐ False

In thermocouples, the relationship between voltage and temperature is nonlinear

Select one:

- ☐ True
- ☐ False



Next page

Time left 0:27:57

A bench micrometer was used to measure the dimensions for an external thread; the readings are given as:

The reading over the thread = 12.6520 mm

The reading over the cylinder = 12.7216 mm

The reading over the thread (with wires) = 11.0766 mm

The reading over the cylinder (with wires) = 14.2838 mm

The reading over the thread (with prisms) = 12.9052 mm

The reading over the cylinder (with prisms) = 16.5464 mm

And you know that the diameter of the standard cylinder is equal to 30.0000 mm , the flank angle of the thread (θ) = 30° , the diameter of the wire (d) = 2.0207 mm, and the pitch size of the thread (p) = 3.5 mm

The minor diameter of the thread is equal to ----- mm.

Answer:

Quiz n

1	2
7	8
13	14
19	20
25	

Finish atte

Clear my choice

20

Finish at

If an intermediate metal is inserted into a thermocouple circuit at any point, the net voltage will not be affected even though the two junctions introduced by the third metal are at different temperature.

Select one:

☐ True

☒ False



Next page

19

out of

Time left 0:10

There are basically two approaches for measuring the surface roughness is : (1) the comparison, (2) the direct measurements. the former is the simpler but the second is the more accurate.

Select one:

☒ True

☐ False

20

out of

In a shaft and hole system, the tolerance of the hole is always greater than the tolerance of the shaft.

Select one:

12

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out of

for any shaft and hole system, the basic size of the hole must equal to the basic size of the shaft.

Select one:

- ☐ True
- ☐ False

[Next page](#)

Question 15

Not yet
answeredMarked out of
1.00Flag
question

A bench micrometer was used to measure the dimensions for an external thread; the readings are given as:

The reading over the thread = 12.6520 mm

The reading over the cylinder = 12.7216 mm

The reading over the thread (with wires) = 11.0766 mm

The reading over the cylinder (with wires) = 14.2838 mm

The reading over the thread (with prisms) = 12.9052 mm

The reading over the cylinder (with prisms) = 16.5464 mm

And you know that the diameter of the standard cylinder is equal to 30.0000 mm , the flank angle of the thread (θ) = 30° , the diameter of the wire (d) = 2.0207 mm, and the pitch size of the thread (p) = 3.5 mm

The minor diameter of the thread is equal to ----- mm.

Answer:

26.3588

I

Question 16

In thermocouples, the relationship between voltage and temperature is nonlinear

one of the advantages of the thermocouples is that the devices are self powered and do not require any auxiliary power source.

Select one:

- ☐ True
- ☐ False



Next page

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Time left 0:13:24

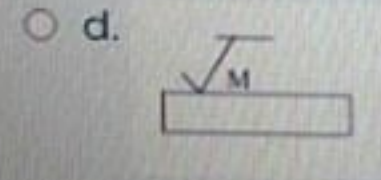
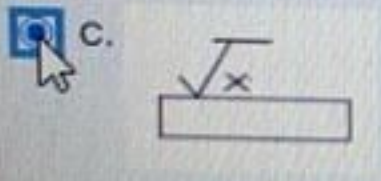
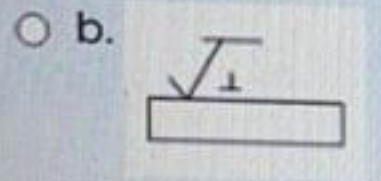
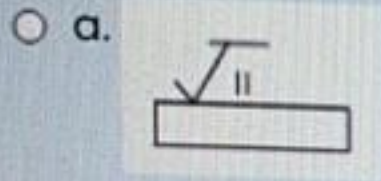
Question 17

Not yet
answered

Marked out of
2.00

Flag
question

In the surface texture symbolic representation, which of the following symbols is used when the lay is angular in both directions to line representing the surface to which the symbol is applied



Clear my choice

Question 18

Not yet

in the vernier caliper , the size of division on the main scale is always greater than the size of division on the vernier scale, and the difference between the two values is equal to the accuracy of the device.

☐ False

In a shaft and hole system, the tolerance of the hole is always greater than the tolerance of the shaft.

Select one:

☐ True

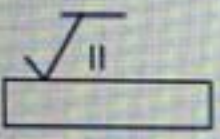
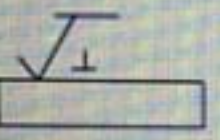
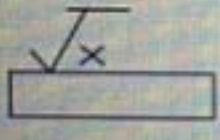
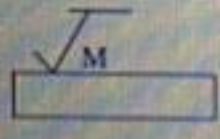
☐ False



Next page



In the surface texture symbolic representation, which of the following symbols is used when the lay is angular in both directions to line representing the surface to which the symbol is applied

- ☐ a. 
- ☐ b. 
- ☐ c. 
- ☐ d. 

A bench micrometer was used to measure the dimensions for an external thread; the readings are

Question 9

Not yet
answered

Marked out of
2.00

Flag
question

A bench micrometer was used to measure the diameter of a cylinder. The readings are given as:

The reading over the thread = 16.00 mm

The reading over the cylinder = 12.9052 mm

The reading over the thread (with wires) = 16.00 mm

The reading over the cylinder (with wires) = 12.9052 mm

The reading over the thread (with prisms) = 16.00 mm

The reading over the cylinder (with prisms) = 12.9052 mm

And you know that the diameter of the standard cylinder is 12.9052 mm, the angle of the thread (θ) = 30° , the diameter of the wire is 3.5 mm and the pitch of the thread (p) = 3.5 mm

The minor diameter of the thread is equal to mm.

9.08

KAIZER
TEAM

The following is a method for measuring the effect of temperature on the resistance of a wire.

A bench micrometer was used to measure the dimensions for an external thread; the readings are given as:

The reading over the thread = 10.6320 mm

The reading over the cylinder = 10.7216 mm

The reading over the thread (with wires) = 11.0766 mm

The reading over the cylinder (with wires) = 14.2838 mm

The reading over the thread (with prisms) = 12.9356 mm

The reading over the cylinder (with prisms) = 16.5464 mm

And you know that the diameter of the standard cylinder is equal to 30.0000 mm , the flank angle of the thread (θ) = 30° , the diameter of the wire (d) = 2.0207 mm, and the pitch size of the thread (p) = 3.5 mm

The major diameter of the thread is equal to ----- mm.

Answer:

Question 24

Not yet
answered

Marked out of
2.00

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question

Autocollimator is one of the angular measuring devices and it can be used to measure the error of straightness

Select one:

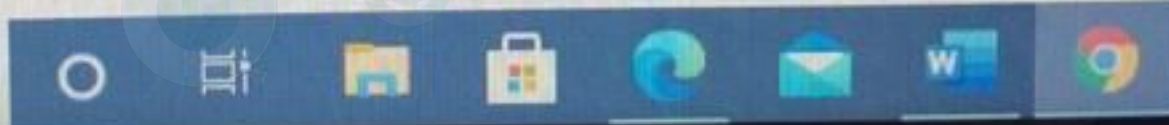
☒ True

☐ False



Next page

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DELL

Clear my choice

in the vernier caliper , the size of division on the main scale is always greater than the size of division on the vernier scale, and the difference between the two values is equal to the accuracy of the device.

Select one:

- ☐ True
- ☐ False



Next page

search



16

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In thermocouples, the relationship between voltage and temperature is nonlinear

Select one:

☐ True

☐ False



Next p

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Question 15

Not yet
answered

Marked out of
1.00

Flag
question

Time left 0:18:59

If an intermediate metal is inserted into a thermocouple circuit at any point, the net voltage will not be affected even though the two junctions introduced by the third metal are at different temperature.

Select one:

- ☐ True
- ☐ False

Question 16

Not yet
answered

Marked out of
2.00

Flag
question

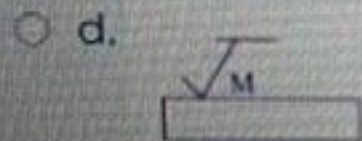
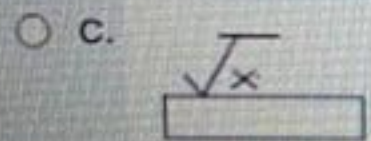
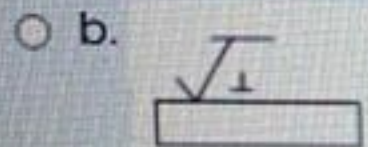
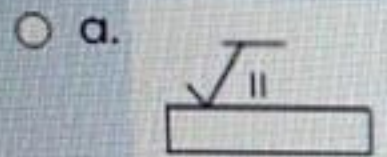
for a shaft and hole system, if the upper deviation of the hole is equal to (0.01 mm) and its lower deviation is equal to (minus 0.02 mm), then the tolerance of the hole is -----

- ☐ a. 0.01 mm
- ☐ b. minus 0.01 mm
- ☐ c. minus 0.03 mm
- ☐ d. 0.03 mm
- ☐ e. the value depends on the shaft deviations.
- ☐ f. none of the above is correct

1	2	3
7	8	9
13	14	15
19	20	21
25		

Finish attempt

In the surface texture symbolic representation, which of the following symbols is used when the lay is angular in both directions to line representing the surface to which the symbol is applied



18 In the vernier caliper, the size of division on the main scale is always greater than the size of division on the

Autocollimator is one of the angular measuring devices and it can be used to measure the error of straightness

Select one:

- ☐ True
- ☐ False

改善

In the GO and NOT GO system, the GO part is always used to check the maximum metal limit and the NOT GO is always used to check the minimum metal limit

Select one:

- ☐ True
- ☐ False

1	2
7	8
13	14
19	20
25	

Finish atte

RTD is an example on the non contact temperature measuring devices

Select one:

☐ True

☐ False

given the following Table for an (S) Type thermocouple

Time left 0:20:21

In the GO and NOT GO system, the GO part is always used to check the maximum metal limit and the NOT GO is always used to check the minimum metal limit

Select one:

- ☐ True
- ☐ False

the tolerance of any shaft is equal to the difference between its upper deviation
its lower deviation

Question 17

Not yet
answered

Marked out of
2.00

Flag
question

In the following figure , the operator is trying to measure -----



- ☐ a. the major diameter of the thread
- ☐ b. the minor diameter of the thread
- ☒ c. the effective diameter of the thread
- ☐ d. the diameter of the wire

[Clear my choice](#)

If an intermediate metal is inserted into a thermocouple circuit at any point, the net voltage will not be affected even though the two junctions introduced by the third metal are at different temperature.

Select one:

- ☐ True
- ☐ False



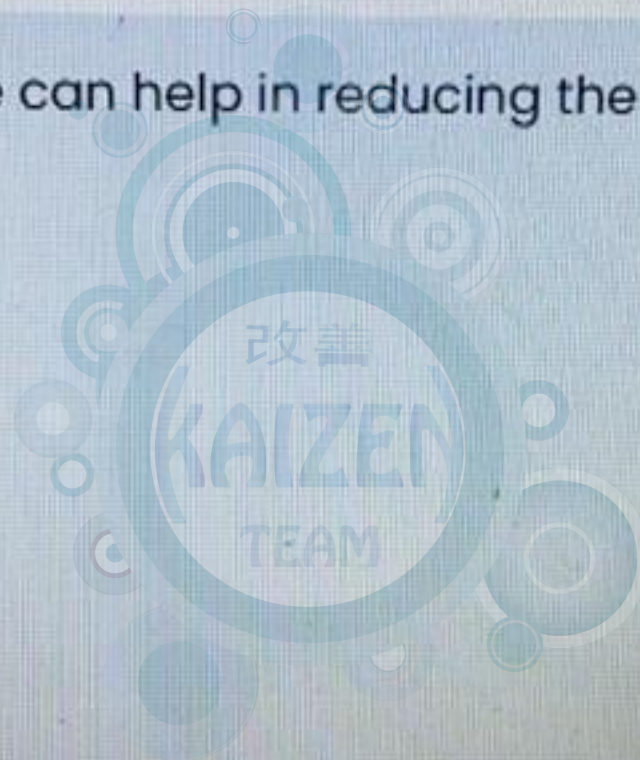
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Time left

Calibration of the measuring device can help in reducing the the random error occurs during measurements.

Select one:

- ☐ True
- ☐ False



If an intermediate metal is inserted into a thermocouple circuit at any point, the net voltage will not be affected even though the two junctions introduced by the third metal are at different temperature.

for any shaft and hole system, the basic size of the hole must equal to the basic size of the shaft.

Select one:

- ☐ True
- ☐ False



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