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- o a. clearance
- b. interference
- O c. transaction
- O d. none of the above is correct

Clear my choice



Next page













### the accuracy of the following vernier bevel protractor is -



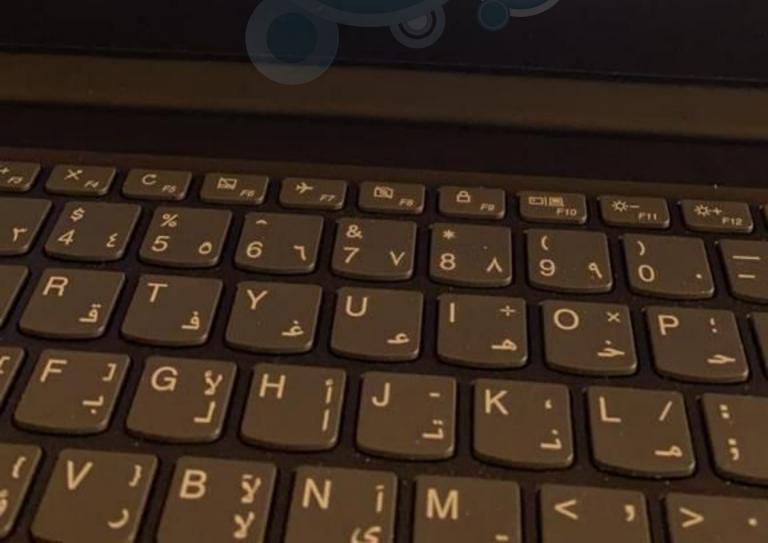
- a. 1 degree
- 0 b.1 minute
- O c. 2.5 minutes
- @ d. 5 minutes

rch

e none of the above is correct

0

Clear my choice



If an instrument is ----- it would give different results for the same dimension for the repeated readings.

B

- a. calibrated and precise
- O b. not precise
- O c. precise and not calibrated
- O d. both b and c are correct
- O e. none of the above is correct

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ut of

The reading of this vernier caliper is ----- mm.

## OGY & amp ENG. MEASURMENTS

courses

METROLOGY & amp ENG. MEASURMENTS

General

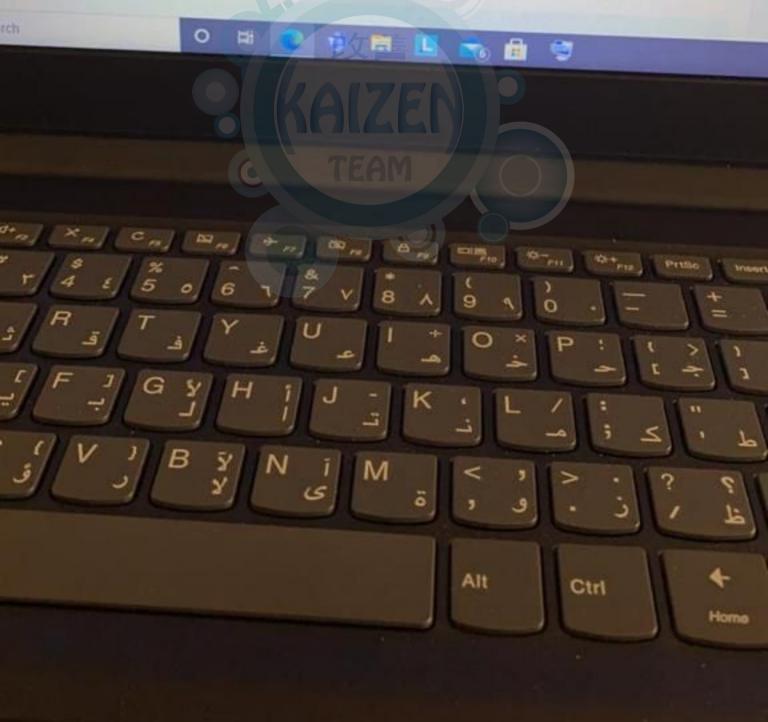
mid-term exam (0936411)



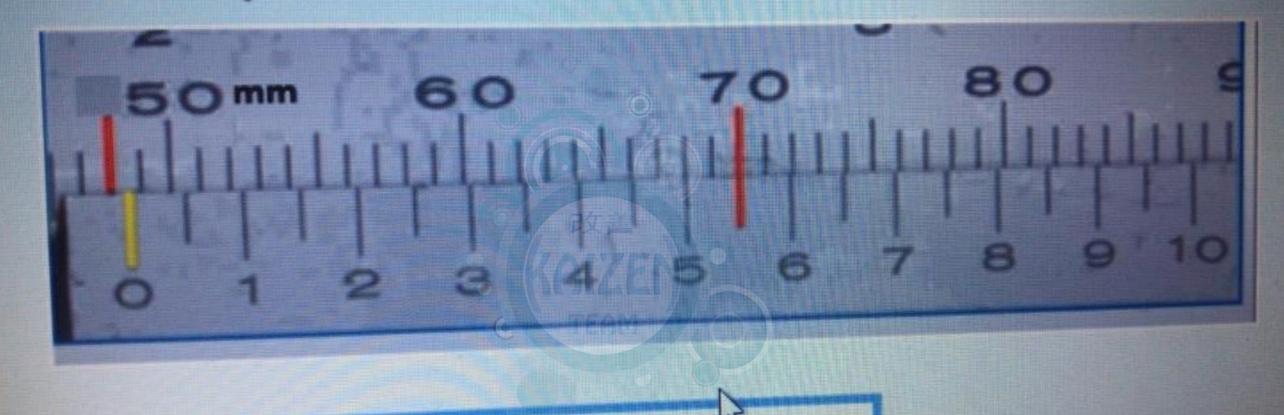
Time left 0:28:28

the nearness of the measured values to its true value.

- a accuracy
- o b. precision
- O c. repeatability
- od both b and c are correct
- O e, none of the above is correct



The reading of this vernier caliper is mm.



Answer: 49.77

Clear my choice

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Flag

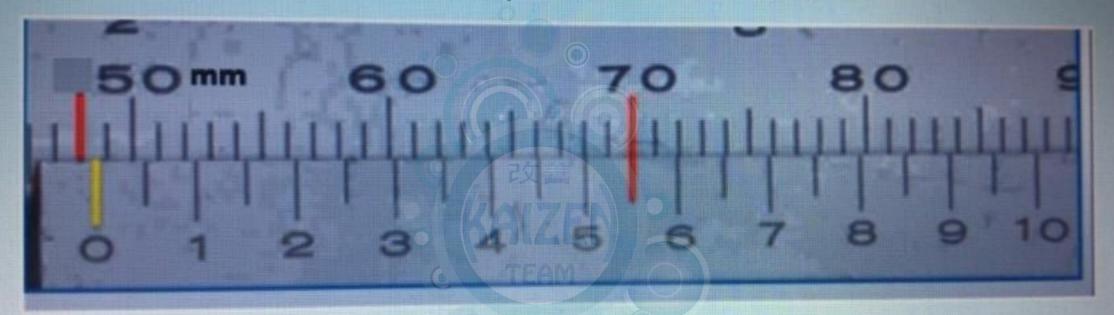
estion

The reading of this vernier caliper is ----- mm.



Answer:

The reading of this vernier caliper is ----- mm.



Answer:

49.77

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14- 05 mm the

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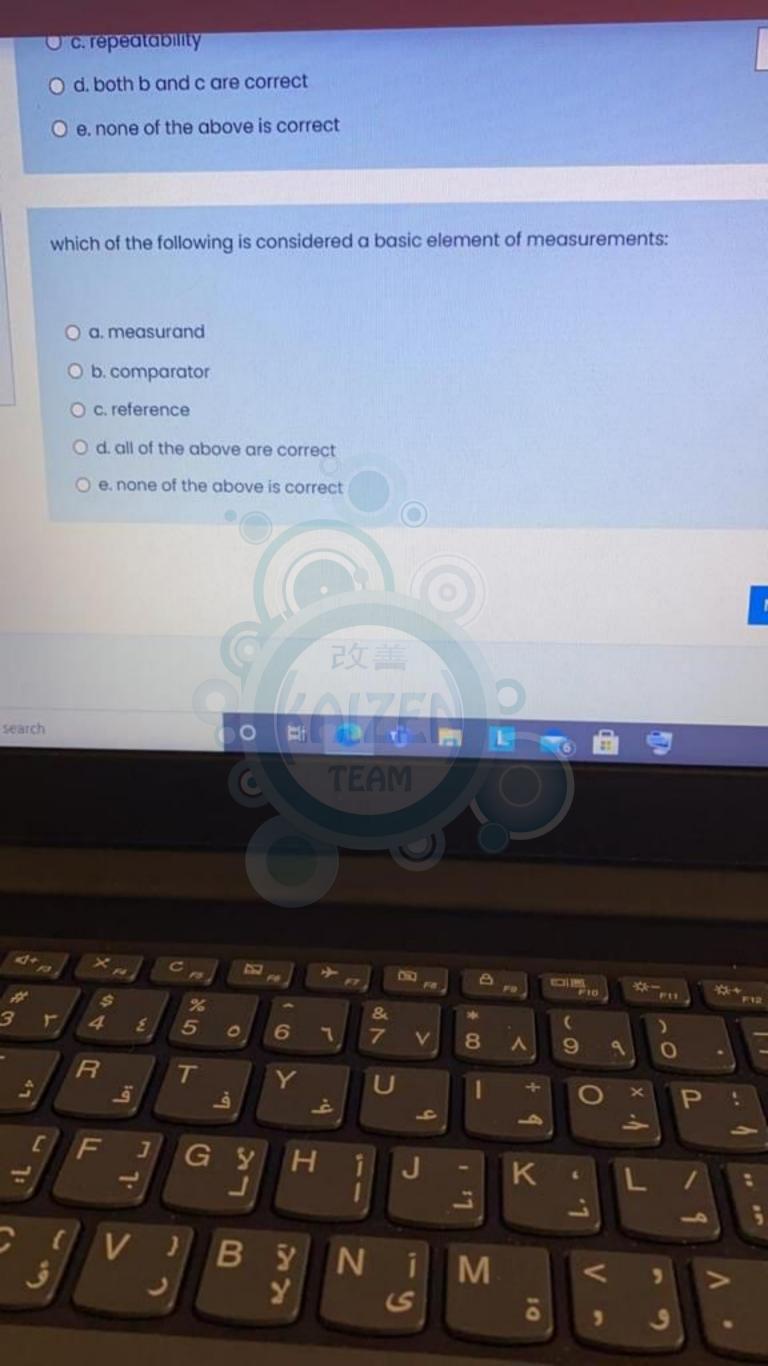
Calibration has no effect on random error.

Select one:

- O True
- O False

on 12

Minimum systematic error moans



Minimum systematic error means-----

- o a. more accurate result
- O b. more precise result
- O c. less accurate result
- O d. less precise result
- O e. none of the above is correct

et ered ed out of

tion

on 14

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

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



Answer:
---------

systematic errors can be eliminated by taking a large number of readings and then averaging them out.

Select one:

- **O** True
- **O** False

If an instrument is ----- it would give different results for the same dimension for the repeated readings.

- a. calibrated and precise
- O b. not precise
- O c. precise and not calibrated
- O d. both b and c are correct
- O e. none of the above is correct

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16

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## LOGY & amp ENG. MEASURMENTS

y courses

METROLOGY & amp ENG. MEASURMENTS

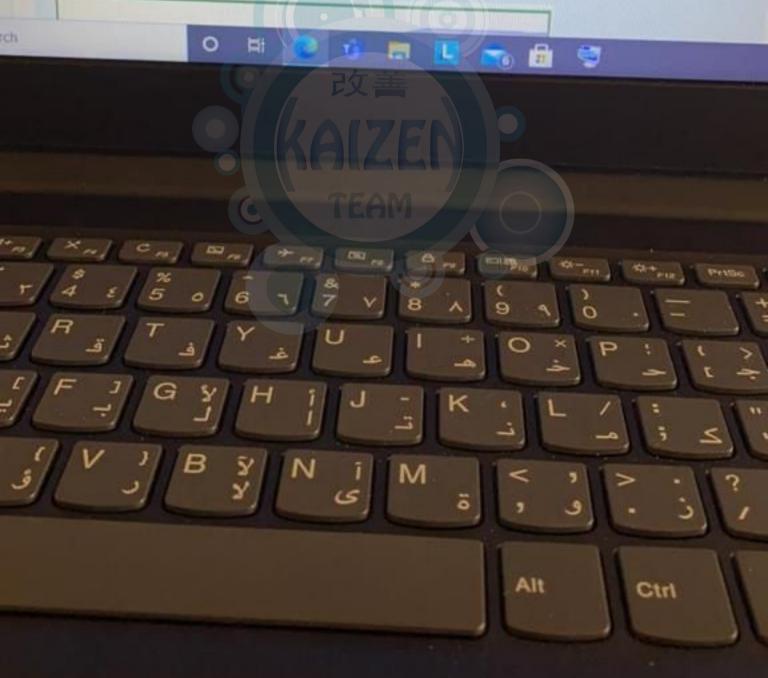
General

mid-term exam (09364

Time left 0:2

for a shaft and hole system, given that the basic size is equal to 30 mm, the minimum clearance is equal to 0.1 mm, the upper deviation of the shaft is (minus 0.06) mm, then lower deviation of the hole is equal to ----- mm.

Answer:



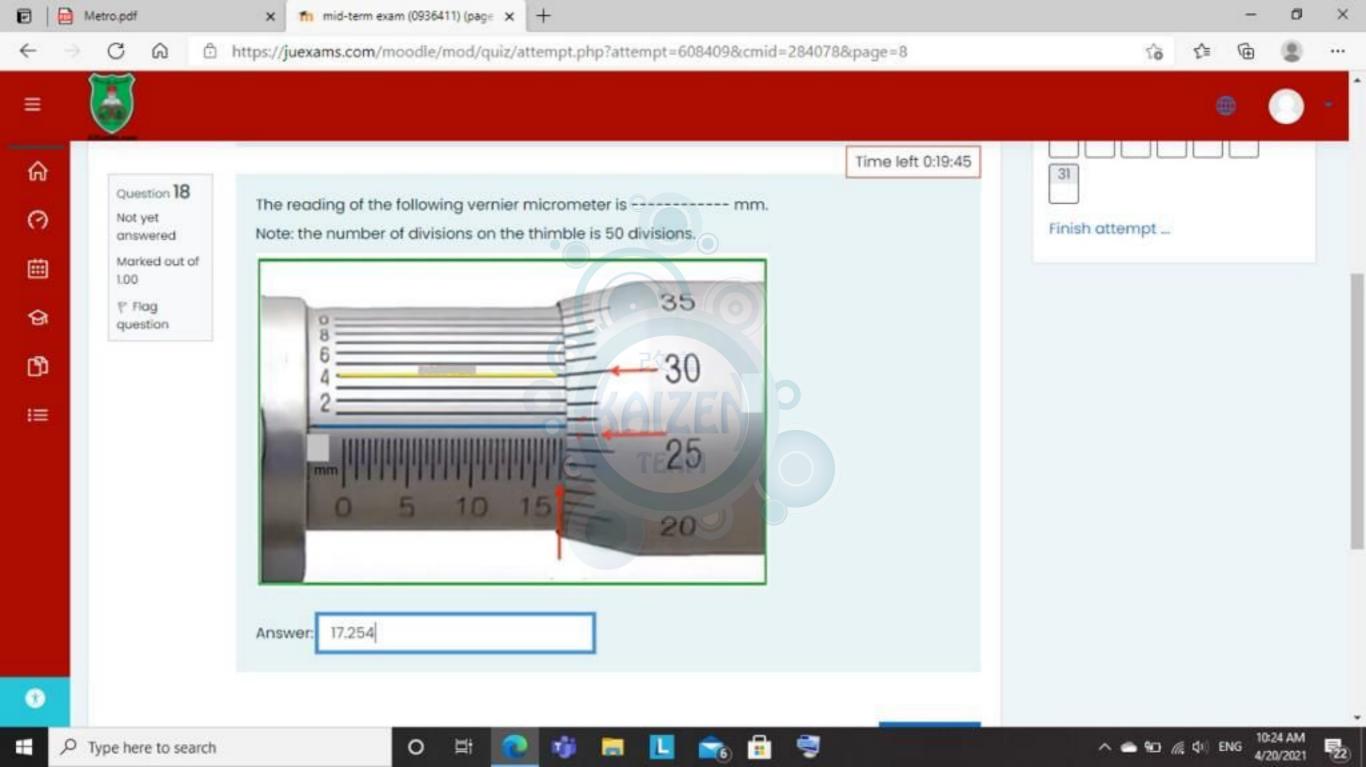
Answer: The reading of the following vernier micrometer is --mm. Note: the number of divisions on the thimble is 50 divisions. 35 30 20 Answer: 17.30 earch 口

## Which of the following is correct?

- a. for clearance fit the allowance is positive, for interference fit the allowance is negative.
- O b. a positive allowance is either for (clearance, or transaction) fit.
- oc. a negative allowance is either for (transaction, or interference) fit.
- O d. a positive allowance means a clearance fit, and a negative allowance means interference fit
- e. only b and c are correct
- Of. all of (a, b, and c) are correct
- og. none of the above is correct
  - Clear my choice

instrument. this type of error may occur due to improper use, handling, or selection of the

- a. zero error
- O b. calibration error
- O c. avoidable error
- O d. misalignment error
- O e. both a and b are correct
- of. both c and d are correct
- O g. none of the above is correct

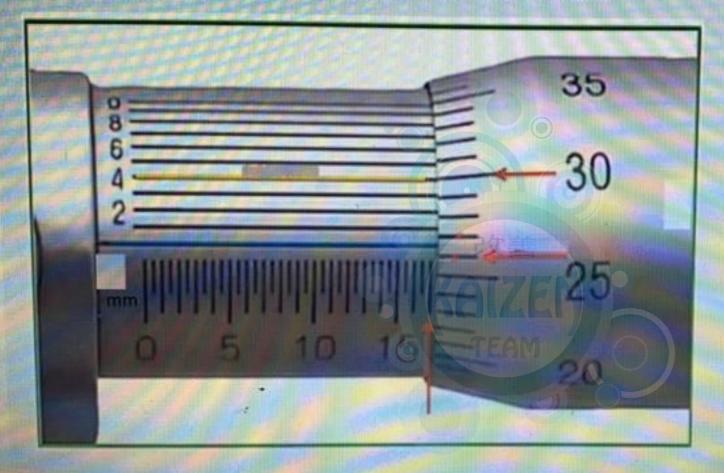


Question 16 Not yet answered

Marked out of 1.00

P Flag question The reading of the following vernier micrometer is ----- mm.

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

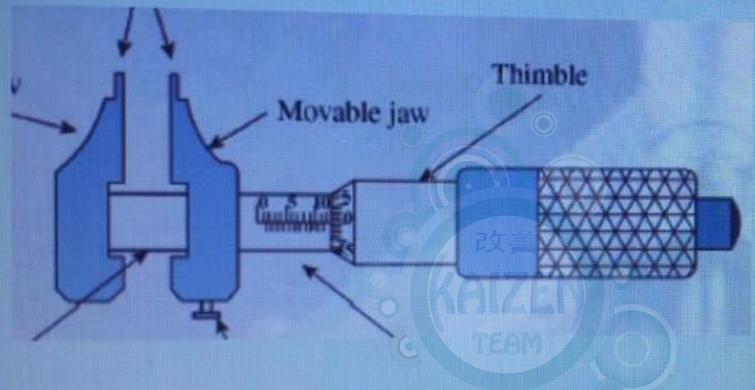


Answer:

Time left 0:21:31

# the device in the following figure follows Abbes's principle

B



Select one:

- O True
- O False

odle/mod/quiz/	attempt.php	?attempt=60	8409&cmi	d=284078	&page=9
					Time lef
to 0.1 mm, the lo	wer deviatio	c size is equa n of the hole	al to 30 mn is equal to	n, the mini 0.06 mm	imum , the
		m.			
haft is 0.05 mm.	that the basic	size is equal of the hole is	to 30 mm, i equal to 0.	the minimu .05 mm, th	um e
he shaft is	mm.				
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ВУ	N i	M	< 1	>	. ?
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	e system, given to 0.1 mm, the lot le is equal to 0.1 mm, the lot haft is 0.05 mm. the shaft is	e system, given that the basic to 0.1 mm, the lower deviation lie is equal to 0.1 mm, lit of the hole is	e system, given that the basic size is equal to 0.1 mm, the lower deviation of the hole is equal to 0.1 mm, lit of the hole is	e system, given that the basic size is equal to 30 mm, to 0.1 mm, the lower deviation of the hole is equal to le is equal to 0.1 mm.  It of the hole is	it of the hole ismm.  It is used to 0.1 mm, the lower deviation of the hole is equal to 0.05 mm, the shaft is

The error that occur when the sight is not perpendicular to the instrument scale or the observer reads the instrument from an angle is an example on -----

- a. parallax error
- b. avoidable error
- oc. reading error
- O d. calibration error
- e. both a and b are correct
- of. both b and c are correct
- og. none of the above is correct

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on

The reading of this vernier caliper is ----- mm.



Answer:

tion 18 et

for a shaft and hole system, given that the basic size is equal to 30 mm, the minimum clearance is 0.1 mm, the lower deviation of the hole is equal to 0.06 mm, the tolerance of the hole is equal to 0.1

Time left 0:15:14

The GO Gauge is used to check the maximum metal limit, while the NOT GO Gauge is used to check the minimum metal limit

Select one:

- O True
- O False

for a shaft and hole system, given that the basic size is equal to 30 mm, the minimum clearance is equal to 0.1 mm, the lower deviation of the hole is equal to 0.05 mm, the tolerance of the shaft is 0.05 mm.

1 of in ----- mm.

Quiz













Finish

The reading of this vernier caliper is ----- mm.



Answer:

for a shaft and hole system, given that the basic size is equal to 30 mm, the minimum clearance is equal to 0.1 mm, the lower deviation of the hole is equal to 0.06 mm, the tolerance of the hole is equal to 0.1 mm, then the higher limit of the hole is ------ mm.

Answer:

Next page

touch Info for a shaft and hole system, given that the basic size is equal to 30 mm, the minimum clearance is equal to 0.1 mm, the lower deviation of the hole is equal to 0.06 mm, the tolerance of the hole is equal to 0.1 mm, then the higher limit of the hole is ----- mm.

Answer:

30.16

Next page

in a shaft and hole system, if the maximum metal limit for a shaft is 25.05 mm and the lower metal limit for the shaft is 25.00 mm, the maximum metal limit of the hole is 24.95 mm, and the minimum metal limit of the hole is 25.02 mm, then the type of fit for this system is ------

- O a. clearance
- O b. interference
- O c. transaction

search

O d. none of the above is correct

Next page

- 0 d. 5 minutes
- O e. none of the above is correct

Clear my choice

#### Question 20

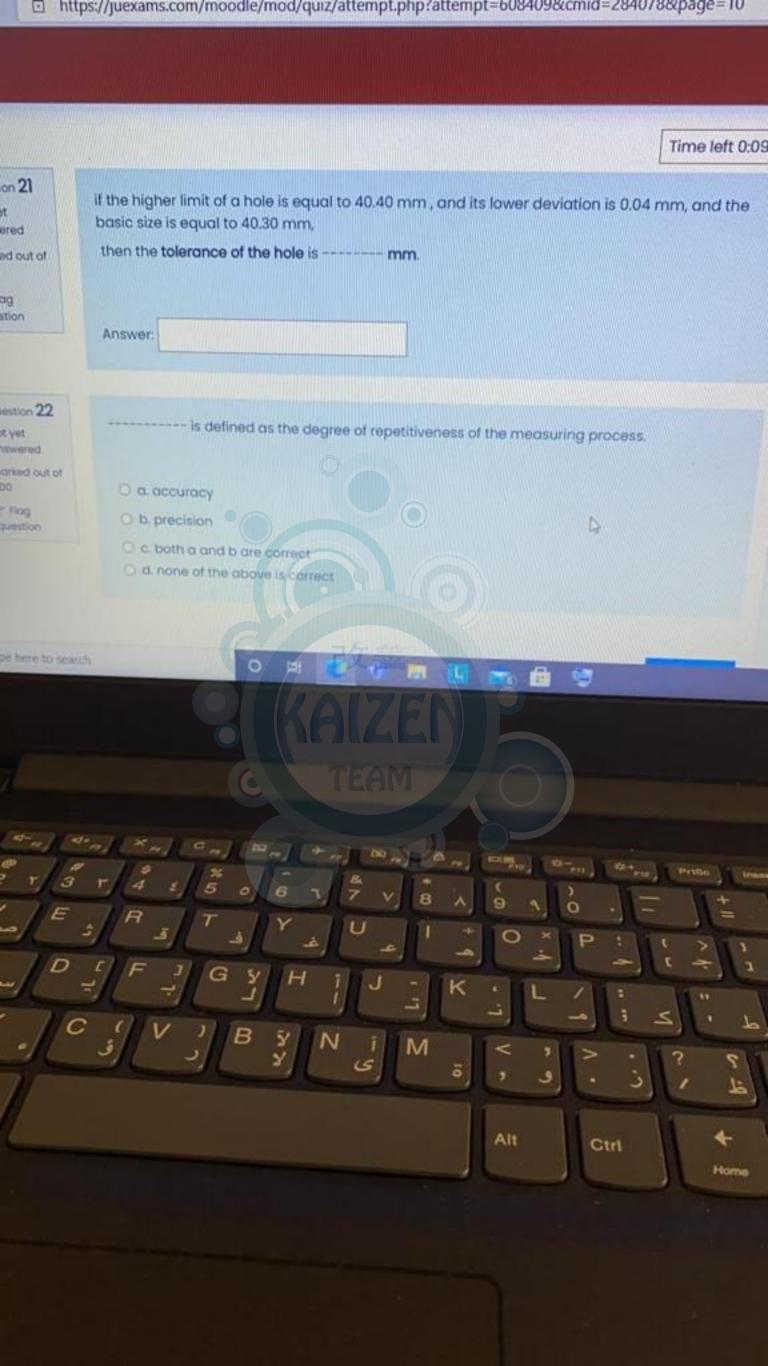
Not yet answered

Marked out of 1.00

F Flag question deviation due to the various contributing factors tends to zero.

- O a. the measured value
- O b. the true value
- O c. the reference value
- O d. the deviated value
- o e. the bias
- O f. none of the above is correct







ŵ











#### Question 21

Not yet answered

Marked out of 1.00

P Flag question

### the reading of the following vernier bevel protractor



- o a. 51 degree and 30 minutes
- O b. 52 degree and 30 minutes
- O c. 63 degree and 30 minutes
- O d. 63 degree and 51 minutes

Time left 0:11:46



22

t of

The reading or the following depth micrometer is ----- mm.

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

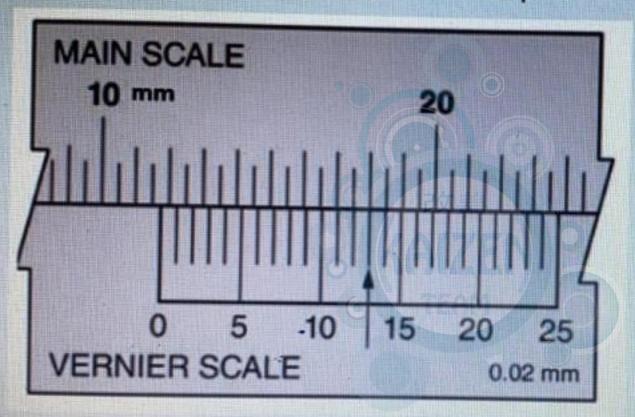


Question 23

Not yet answered

Marked out of

P Flag question the accuracy of the following vernier caliper is ----- mm



Answer:

#### Which of the following is correct?

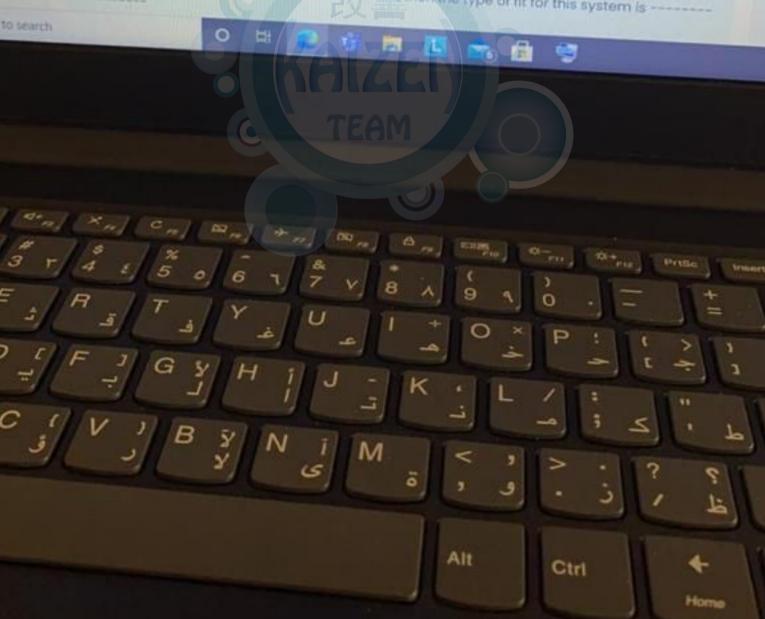
- a. for clearance fit the allowance is positive , for interference fit the allowance is negative.
- O b, a positive allowance is either for ( clearance, or transaction ) fit.
- O c. a negative allowance is either for (transaction, or interference) fit.
- od. a positive allowance means a clearance fit, and a negative allowance means interference fit
- e, only b and c are correct

124

- t, all of (a, b, and c) are correct
- O g. none of the above is correct

10

in a shaft and hole system, if the maximum metal limit for a shaft is 25.05 mm and the lower metal limit for the shaft is 25.00 mm, the maximum metal limit of the hole is 24.95 mm, and the minimum metal limit of the hole is 25.02 mm, then the type of fit for this system is -----



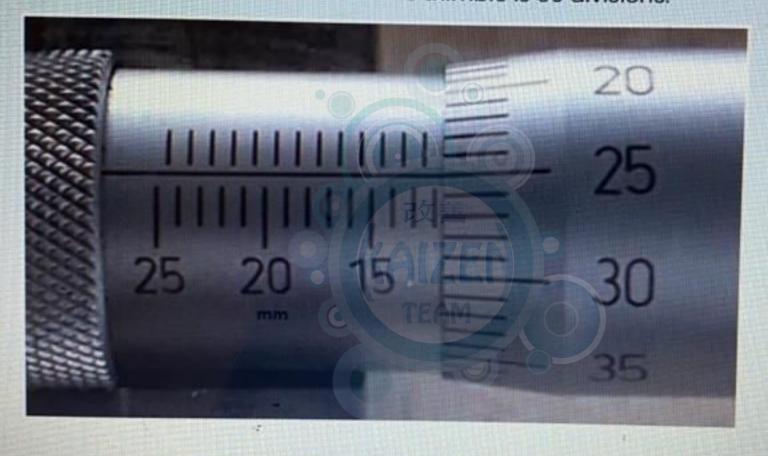
Question 25

Not yet answered

Marked out of 1.00

P Flag question The reading or the following depth micrometer is ----- mm.

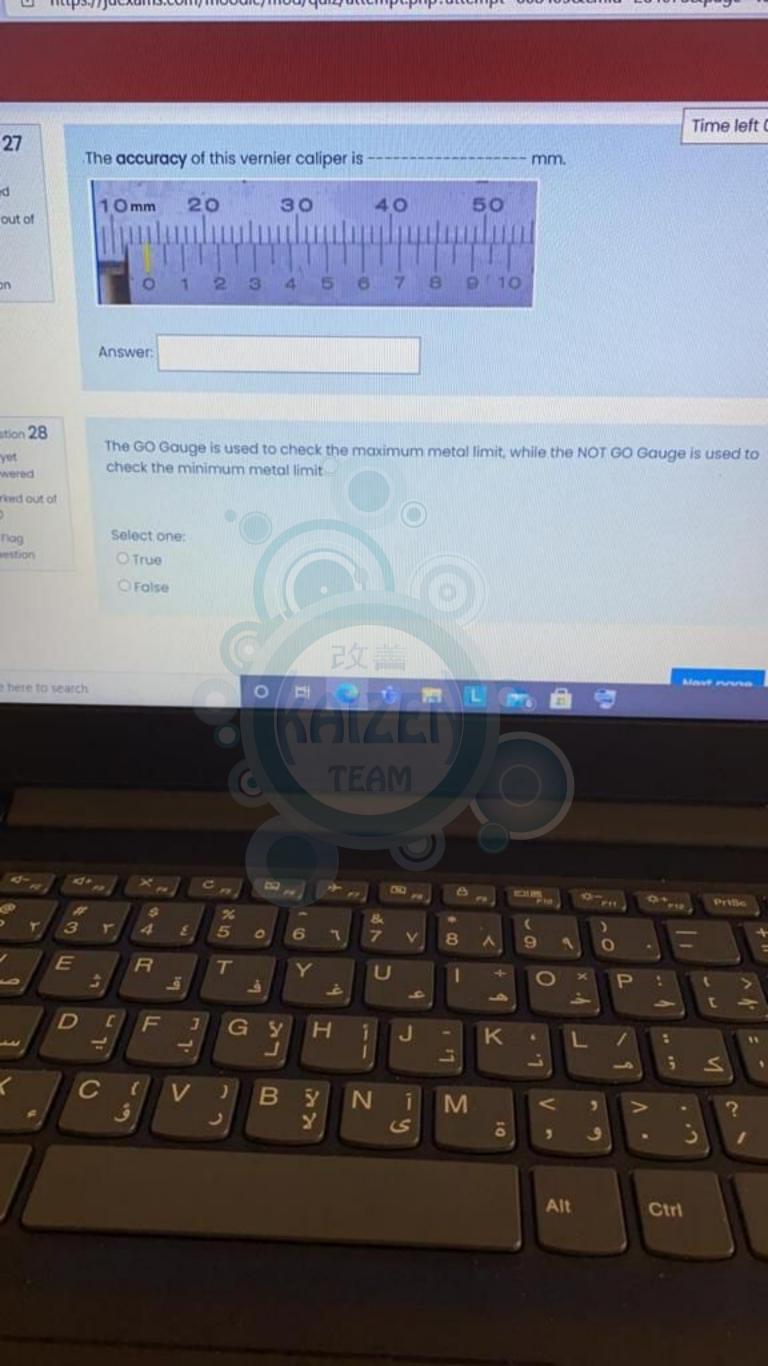
Note: the number of divisions on the thimble is 50 divisions.



Answer:

for a shall and the

Answer: 11.75 for a shaft and hole system, given that the basic size is equal to 30 mm, the minimum clearance is equal to 0.1 mm, the upper deviation of the shaft is (minus 0.06) mm, then lower deviation of the hole is equal to mm. Answer: Next page search

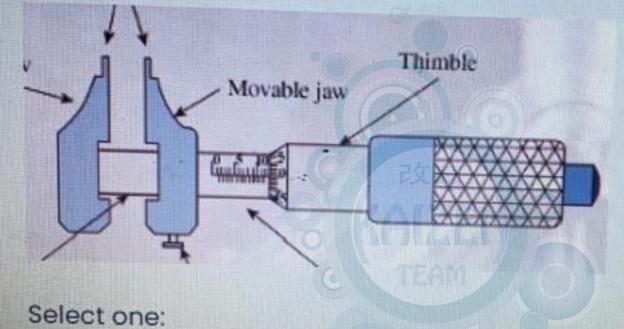


Question 27

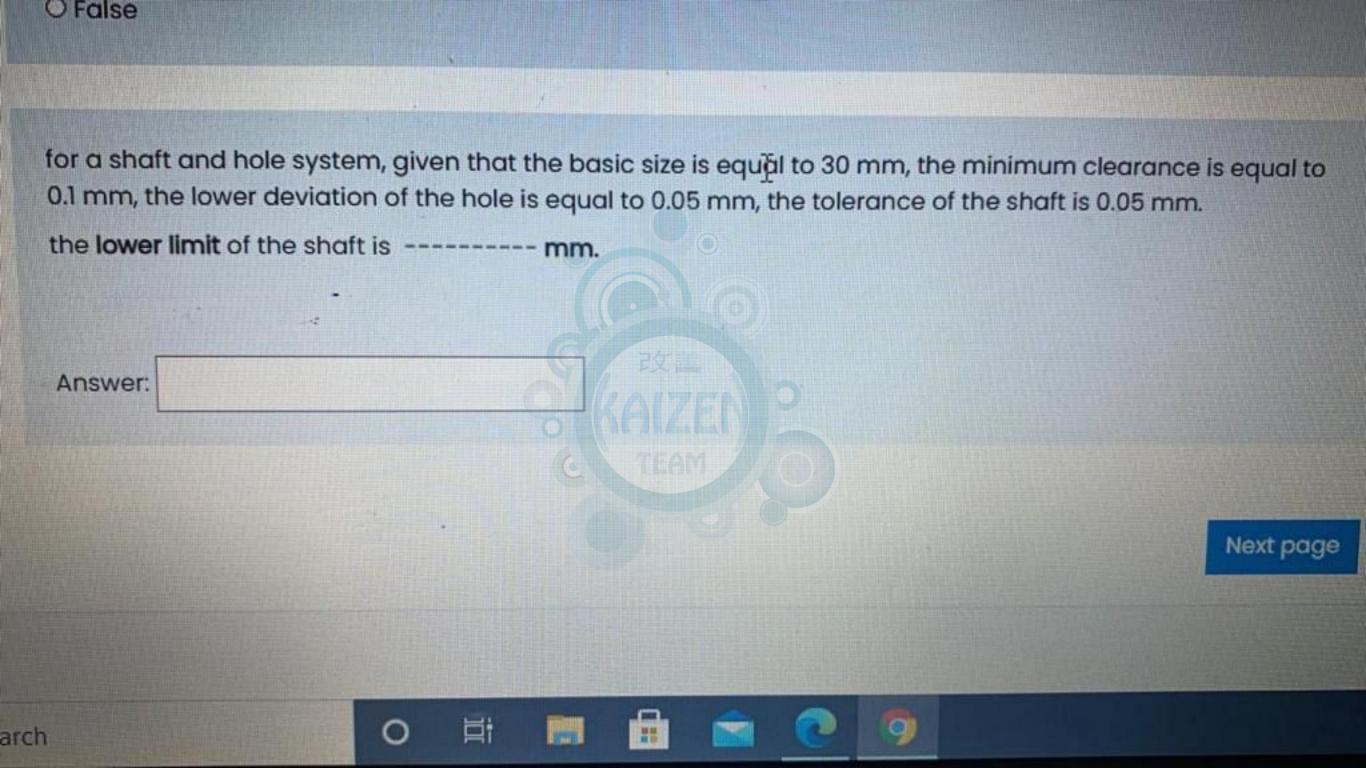
Not yet answered

Marked out of 1.00

P Flag question the device in the following figure follows Abbes's principle



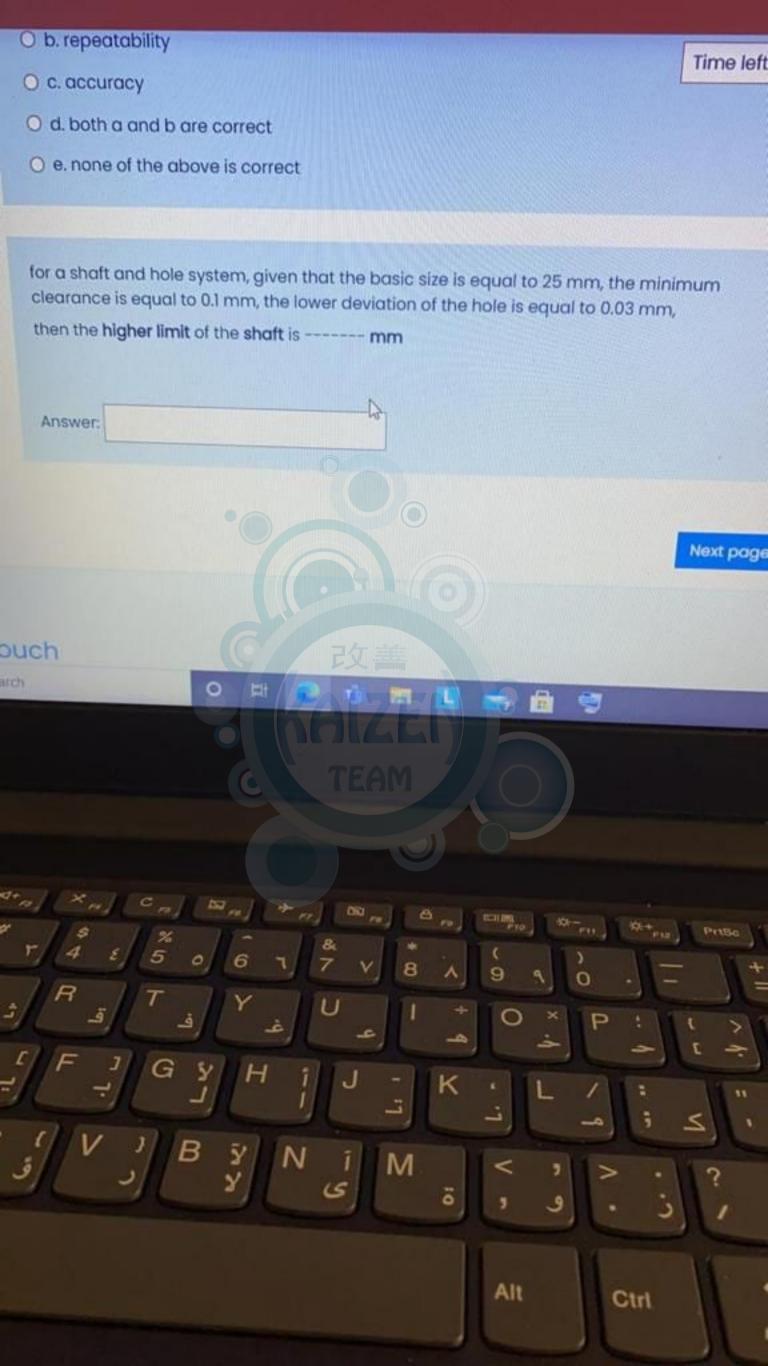
- O True
- O False



## Minimum systematic error means-----

- a. more accurate result
- b. more precise result
- o c. less accurate result
- od. less precise result
- e. none of the above is correct





odle/mod/quiz/	attempt.php	?attempt=60	8409&cmi	d=284078	&page=9
					Time lef
to 0.1 mm, the lo	wer deviatio	c size is equa n of the hole	al to 30 mn is equal to	n, the mini 0.06 mm	imum , the
		m.			
haft is 0.05 mm.	that the basic	size is equal of the hole is	to 30 mm, i equal to 0.	the minimu .05 mm, th	um e
he shaft is	mm.				
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	e system, given to 0.1 mm, the lot le is equal to 0.1 mm, the lot haft is 0.05 mm. the shaft is	e system, given that the basic to 0.1 mm, the lower deviation lie is equal to 0.1 mm, lit of the hole is	e system, given that the basic size is equal to 0.1 mm, the lower deviation of the hole is equal to 0.1 mm, lit of the hole is	e system, given that the basic size is equal to 30 mm, to 0.1 mm, the lower deviation of the hole is equal to le is equal to 0.1 mm.  It of the hole is	it of the hole ismm.  It is used to 0.1 mm, the lower deviation of the hole is equal to 0.05 mm, the shaft is

is defined as the degree of agreement of the measured dimension with its true magnitude.

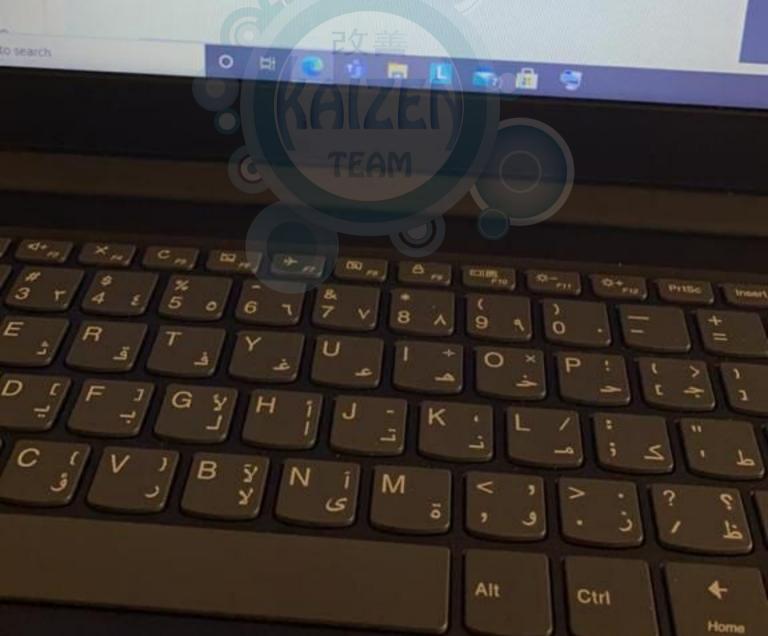
- a. precision
- O b. repeatability
- O c. accuracy

30

- O d. both a and b are correct
- e, none of the above is correct

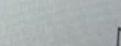
for a shaft and hole system, given that the basic size is equal to 25 mm, the minimum clearance is equal to 0.1 mm, the lower deviation of the hole is equal to 0.03 mm. then the higher limit of the shaft is

19



The error that occur when the sight is not perpendicular to the instrument scale or the observer reads the instrument from an angle is an example on ------

- o a. parallax error
- b. avoidable error
- O c. reading error
- O d. calibration error
- O e. both a and b are correct
- Of. both b and c are correct
- O g. none of the above is correct





- a. 51 degree and 30 minutes
- O b. 52 degree and 30 minutes
- o c. 63 degree and 30 minutes
- d. 63 degree and 51 minutes

13 14





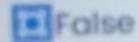


Finish atte

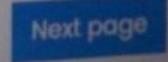
systematic errors can be eliminated by taking a large number of readings and then averaging them out.

Select one:

**True** 



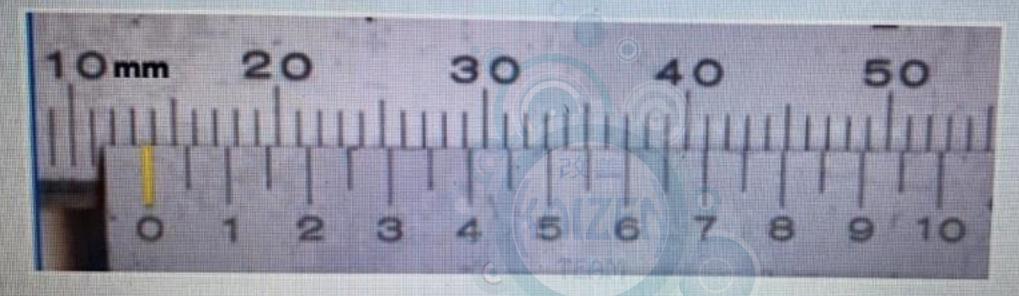




values when the average deviation due to the various contributing factors tends to zero.

- a. the measured value
- b. the true value
- o c. the reference value
- Od. the deviated value
- o e. the bias
- of. none of the above is correct

The accuracy of this vernier caliper is ----- mm.



Answer:

Question 45

Not yet answered

Marked out of

P Flog question when using thermocouples, the relationship between temperature and voltage is linear.

Select one:

O True

O False



3

Next page

which of the following is considered a basic element of measurements:

- O a. measurand
- O b. comparator
- O c. reference
- O d. all of the above are correct
- O e, none of the above is correct







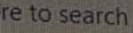












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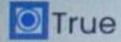
out of

d

Time left 0:49:18

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:



O False

given the following Table for an (S) Type thermocouple

50

Quiz no











Finish o

Time left 0:49:11

Question 1

Not yet answered

Marked out of 2.00

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

Select one:

- O True
- False

Question 2

Not yet answered

Marked out of 2.00

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

Select one:

- O True
- O False

Quiz navigation













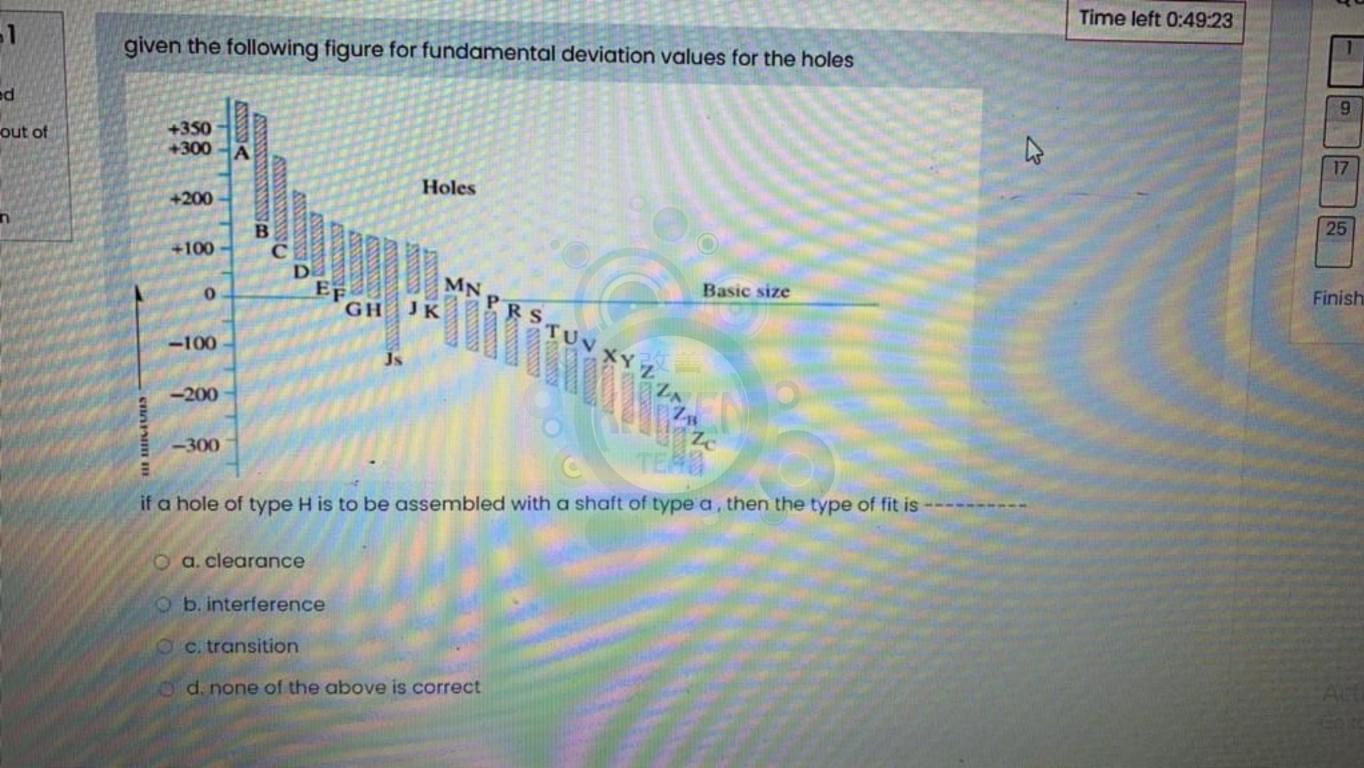
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Finish attempt ....



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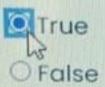
Question 2

Not yet answered

Marked out of 2.00

₹ Flag question 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:





Next page

Stay in touch

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

Select one:

■ True

O False



Next page

