

Demonstrate Selecting, Using and Maintaining a range of Precision and Non-Precision Tools to Accurately Measure

Skill Number: CO-OP15GN105

Full Name: Shah Adam Alferi SGA

No ID: 20

School: SMK 1 Singaperbangsa

Validation Date: 13-3-2026

PERFORMANCE TASK:

Given some measuring tools, the student is requested to perform the following tasks on various measuring tools:

- Selecting
- Using
- Recording
- Maintaining

The student will be instructed to measure with a non-precision gauge such as: steel ruler, feeler gauge and precision tools such as vernier calipers, outside, inside and depth micrometer the dimension of some given parts. Literature and measuring tools will be made available but will not be provided directly to the student.

The student must be able to perform the following task:

- Demonstrate using various measuring tools on an engine or other system components.

Safety and Contamination Control must be always applied to this process.

Prerequisite	Yes	No	N/A	Hints
The student must complete the knowledge assessment. Minimum passing grade 80%.	<input checked="" type="checkbox"/>			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Preparation				
Prepare related literature	<input checked="" type="checkbox"/>			
Prepare required equipment	<input checked="" type="checkbox"/>			
Prepare related tools	<input checked="" type="checkbox"/>			
Prepare Safety & Contamination Control equipment	<input checked="" type="checkbox"/>			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform etiquette/manner when starting the job	<input checked="" type="checkbox"/>			
Meet the customer / assessor	<input checked="" type="checkbox"/>			
Perform etiquette/manner when opening the interaction.	<input checked="" type="checkbox"/>			
Explain the purpose of Student's activity.	<input checked="" type="checkbox"/>			
Ask permission to perform the job.	<input checked="" type="checkbox"/>			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Selecting, Using and Maintaining a range of Precision and Non-Precision Tools				
1. Inspect the measuring tool before using	<input checked="" type="checkbox"/>			
2. Clean tool and component	<input checked="" type="checkbox"/>			
3. Calibrate measuring tools before using	<input checked="" type="checkbox"/>			
4. Measure component use measuring tools with tolerance allowance 0.5 mm (0.02" or 1/25") for non-precision measuring tools and 0.025 mm (0.001") for precision measuring tools.	<input checked="" type="checkbox"/>			
5. Tasks completed without damage to equipment and tools	<input checked="" type="checkbox"/>			
6. Equipment and tooling are cleaned and returned to its correct location	<input checked="" type="checkbox"/>			
7. Record the reading of the measurements	<input checked="" type="checkbox"/>			
Documentation:				
Take picture if needed	<input checked="" type="checkbox"/>			



Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform close the job by ensuring all systems or conditions is in the standard condition	✓			
Ensure all systems or conditions are in standard condition.	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Reporting				
All relevant documentation completed correctly and approved by customer (if required).	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Safety				
Using PPE related to the job	✓			
Follows relevant Workplace Safety Guidelines (LOTO, Safety Equipment)	✓			
State and follow Safety Precautions	✓			
Service man completes job without accident due to incorrect procedure using hand tools.	✓			
Tasks completed without damage equipment and tools	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Contamination Control				
Environmental Practices & Housekeeping	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform etiquette/manner after completing the job	✓			
Perform etiquette/manner when closing the communication.	✓			

General Comments

RESULT: COMPETENT NOT YET COMPETENT (please check)

Student: Sulhan Adam alfarisi Date: 13-3-2026 Signature: [Signature]

Assessor: [Signature] Date: 15-3-2026 Signature: [Signature]

Supervisor: _____ Date: _____ Signature: _____

Data Recorded: _____ Name: _____ Date: _____ Signature: _____

Demonstrate Selecting, Using and Maintaining a range of Precision and Non-Precision Tools to Accurately Measure

Skill Number CO-OP15GN105

Full Name: Sulhon Adon Alfarisi

No ID: 20

Validation Date: 13 - 2 - 2026

School: SMK 1 SINGARAI

PERFORMANCE TASK:

Given some measuring tools, the student is requested to perform the following tasks on various measuring tools:

- Selecting
- Using
- Recording
- Maintaining

The student will be instructed to measure with a non-precision gauge such as steel ruler, feeler gauge and precision tools such as vernier callipers, outside, inside and depth micrometer the dimension of some given parts. Literature and measuring tools will be made available but will not be provided directly to the student.

The student must be able to perform the following task:

- Demonstrate using various measuring tools on an engine or other system components.

Safety and Contamination Control must be always applied to this process.

Prerequisite	Yes	No	N/A	Hints
The student must complete the knowledge assessment. Minimum passing grade 80%.	✓			Score measuring tools Course or subject.

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Preparation	✓			
Prepare related literature	✓			
Prepare required equipment	✓			
Prepare related tools	✓			
Prepare Safety & Contamination Control equipment	✓			



Tasks	Completed			Observation
	Yes	No	N/A	
Perform etiquette/manner when starting the job	✓			
Meet the customer / assessor	✓			
Perform etiquette/manner when opening the interaction.	✓			• Perform smile & Introduce Student
Explain the purpose of Student's activity.	✓			
Ask permission to perform the job.	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
1. Inspect the measuring tool before using	✓			Visual inspection of the meas wear, cracks, damage
2. Clean tool and component before using	✓			Using of consumables OC tool
3. Calibrate measuring tools before using	✓			Tools should be calibrated procedure
4. Measure component use measuring tools with tolerance allowance 0.5 mm (0.02" or 1/25") for non-precision measuring tools and 0.025 mm (0.001") for precision measuring tools.	✓			Thread identification gauge pressure gauge without toleran
5. Tasks completed without damage to equipment and tools	✓			Component and tooling are de assembled as given procedure
6. Equipment and tooling are cleaned and returned to its correct location	✓			Cleaned and stored equipment right place.
7. Record the reading of the measurements	✓			Write the actual reading on the by the assessor
Documentation:				
Take picture if needed	✓			



Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform close the job by ensuring all systems or conditions is in the standard condition	✓			<ul style="list-style-type: none"> Find the improper condition. Communicate the finding to the customer/assessor.
Ensure all systems or conditions are in standard condition.	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Reporting All relevant documentation completed correctly and approved by customer (if required).	✓			<ul style="list-style-type: none"> Completing the Task List Completing Measurement Form/Related Check Sheet, if required Create Service Report (SIMS), if required Create SPR, if required Documenting the failed or damaged parts, if required Provide Technical Analysis Report/Failure Analysis Report, if required.

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Safety Using PPE related to the job	✓			Comply with safety regulation that applied on the workplace
Follows relevant Workplace Safety Guidelines (LOTO, Safety Equipment)	✓			
State and follow Safety Precautions	✓			<ul style="list-style-type: none"> Create Job Safety Analysis Student must follow safety procedure refer to service manual or SIS related to job
Service man completes job without accident due to incorrect procedure using hand tools.	✓			<ul style="list-style-type: none"> Correct working position Correct hand tool related to the job
Tasks completed without damage equipment and tools	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Contamination Control Environmental Practices & Housekeeping	✓			<ol style="list-style-type: none"> Waste is minimized, waste including sludge, solids and wastes are sorted and stored recycling or disposal Packaging of goods received and reused or disposed of Materials that can be reused cleaned and stored Waste and scrap are removed following workplace procedure All fluids are disposed of in accordance with enterprise policies and procedures

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
Perform etiquette/manner after completing the job Perform etiquette/manner when closing the communication.	✓			<ul style="list-style-type: none"> Perform smile & greet Ask permission to the interaction.



General Comments

RESULT: COMPETENT NOT YET COMPETENT (please check (N))

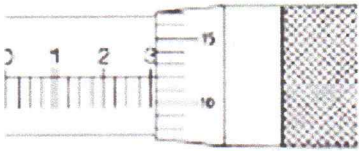
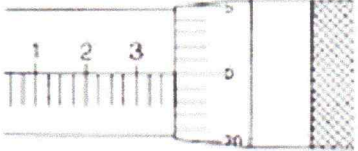
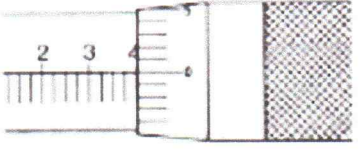
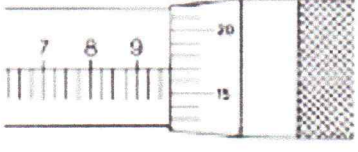
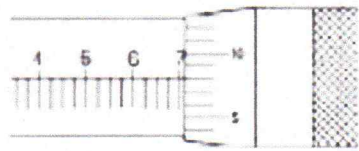
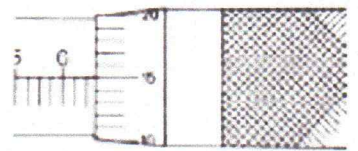
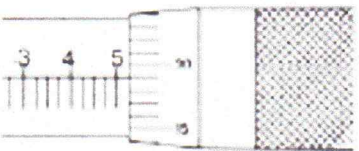
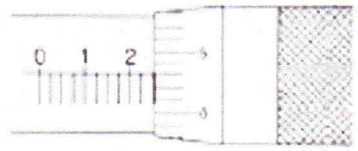
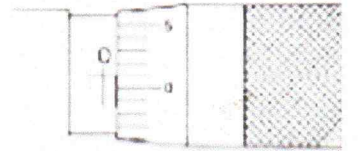

Student: Sultan ada alfarisi
Name: Sultan ada alfarisi
Date: 13-3-2026
Signature: 

Assessor: Shawaun TB
Name: Shawaun TB
Date: 13/3/2026
Signature: 

Supervisor:
Name: _____ Date: _____
Signature: _____

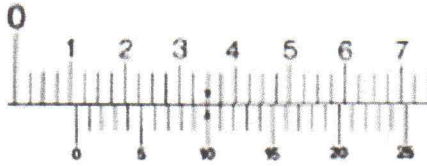
Data Recorded:
Name: _____ Date: _____
Signature: _____

Latihan Membaca Micrometer Inch

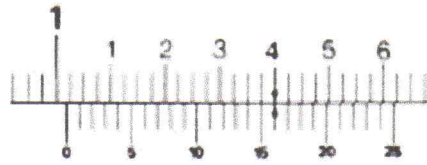
<p>3.47</p>  <p>Jawaban : <u>3.12</u> inch</p>	<p>3.48</p>  <p>Jawaban : <u>3.175</u> inch</p>
<p>3.49</p>  <p>: <u>3.047</u> inch</p>	<p>3.50</p>  <p>: <u>3.097</u> inch</p>
<p>3.51</p>  <p>Jawaban : <u>3.078</u> inch</p>	<p>3.52</p>  <p>Jawaban : <u>3.0665</u> inch</p>
<p>3.53</p>  <p>Jawaban : <u>3.0519</u> inch</p>	<p>3.54</p>  <p>Jawaban : <u>2.53</u> inch</p>
<p>3.55</p>  <p>Jawaban : <u>0.26</u> inch</p>	<p>3.56</p>  <p>Jawaban : <u>4.09</u> inch</p>

Latihan Membaca Vernier Inch

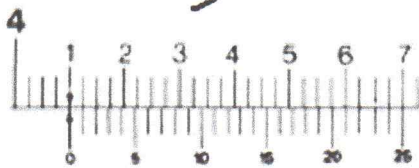
3.37

Jawaban : 0,100 inch

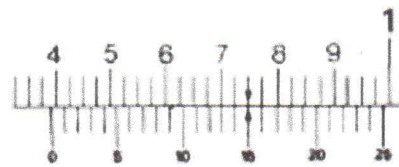
3.38

Jawaban : 1,016 inch

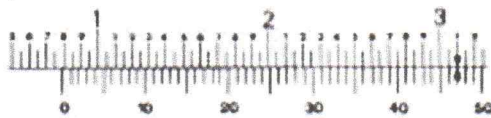
3.39

Jawaban : 4,100 inch

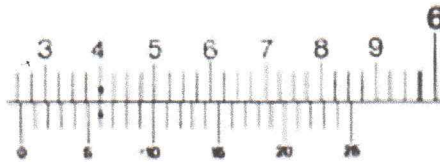
3.40

Jawaban : 0,390 inch

3.41

Jawaban : 0,797 inch

3.42

Jawaban : 5,286 inch

3.43

Jawaban : 0,752 inch

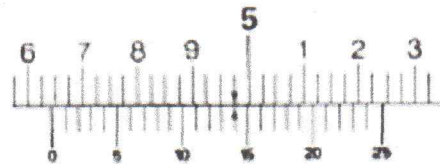
3.44

Jawaban : 0,670 inch

3.45

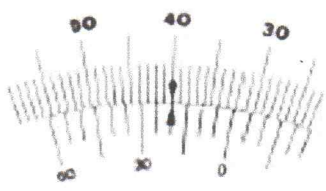
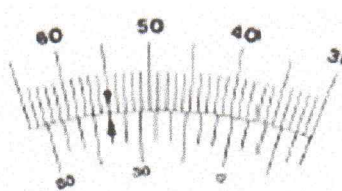
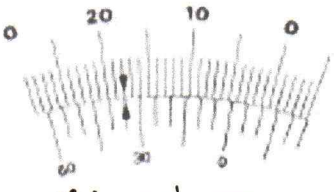
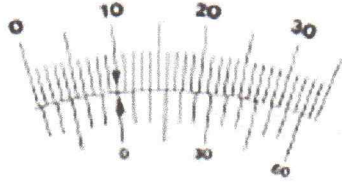
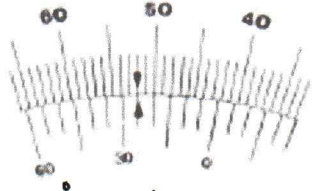
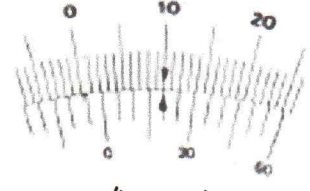
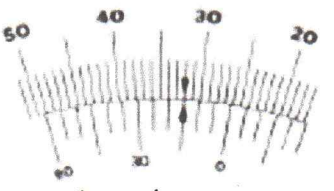
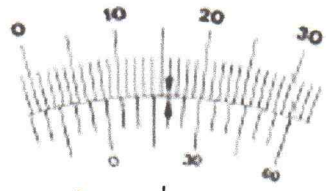
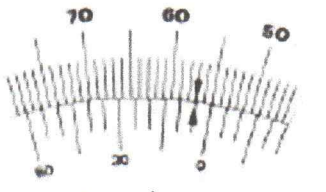
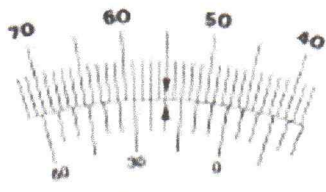
Jawaban : 4,926 inch

3.46

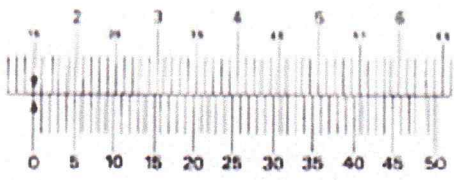
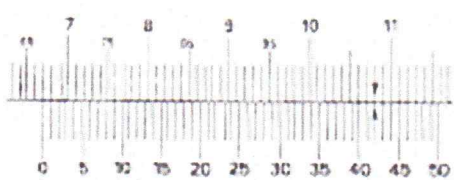
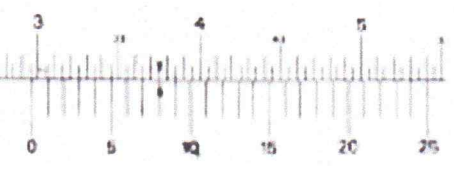
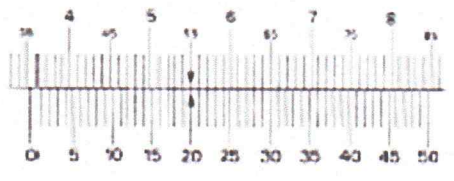
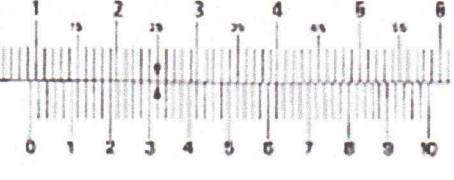
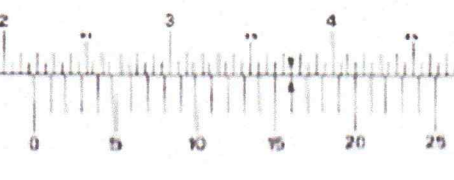
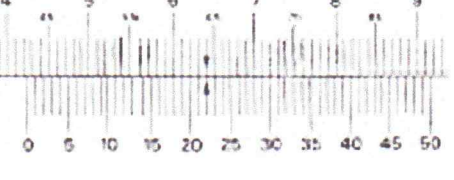
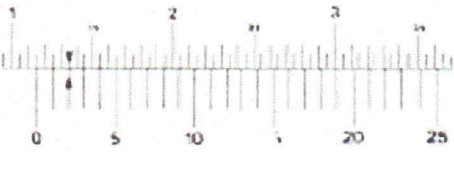
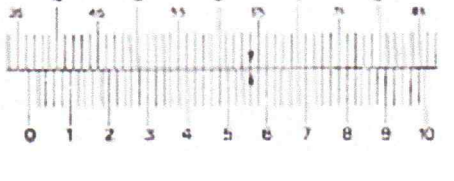
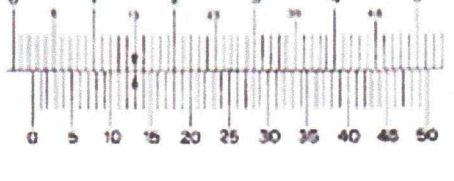
Jawaban : 4,639 inch

Date	Description

Bacaan Vernier Protractor

<p>3.27</p>  <p>: $32^{\circ} 20'$ menit</p>	<p>3.28</p>  <p>: $40^{\circ} 40'$ menit</p>
<p>3.29</p>  <p>: $4^{\circ} 35'$ menit</p>	<p>3.30</p>  <p>: _____</p>
<p>3.31</p>  <p>: $42^{\circ} 25'$</p>	<p>3.32</p>  <p>: $2^{\circ} 20'$</p>
<p>3.33</p>  <p>: $26^{\circ} 15'$</p>	<p>3.34</p>  <p>: $8^{\circ} 20'$</p>
<p>3.35</p>  <p>: $55^{\circ} 5'$</p>	<p>3.36</p>  <p>: $47^{\circ} 20'$</p>

Bacaan Metric Vernier

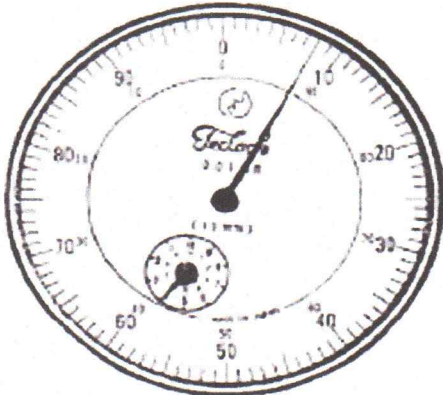
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<p>3.19</p>  <p>Jawaban : <u>29,58 mm</u></p>	<p>3.20</p>  <p>Jawaban : <u>35,26 mm</u></p>
<p>3.21</p>  <p>Jawaban : <u>9,13 mm</u></p>	<p>3.22</p>  <p>Jawaban : <u>24,66 mm</u></p>
<p>3.23</p>  <p>Jawaban : <u>42,24 mm</u></p>	<p>3.24</p>  <p>Jawaban : <u>11,54 mm</u></p>
<p>3.25</p>  <p>Jawaban : <u>36,56 mm</u></p>	<p>3.26</p>  <p>Jawaban : <u>2,16 mm</u></p>

1954-55

1956-57

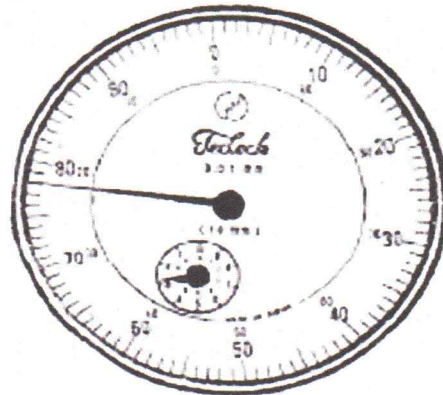
Bacaan Metric Indicator

3.11



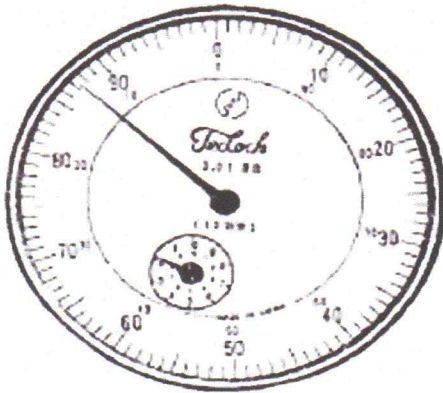
Jawaban : 4,08 mm

3.12



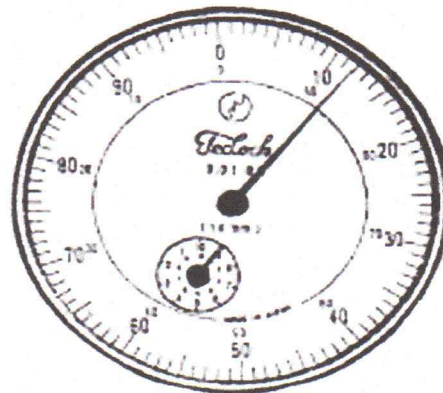
Jawaban : 2,78 mm

3.13



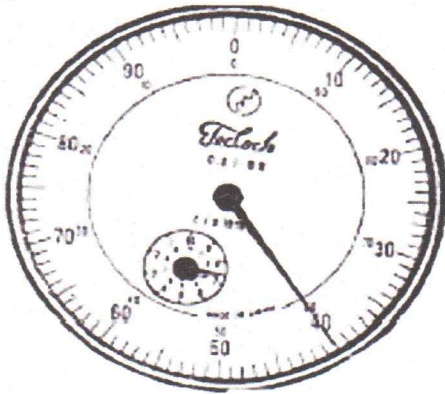
Jawaban : 1,87 mm

3.14



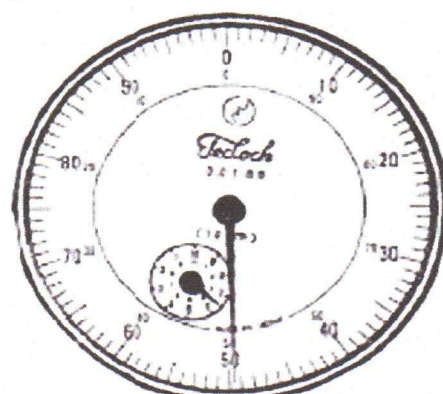
Jawaban : 9,12 mm

3.15



Jawaban : 7,40 mm

3.16

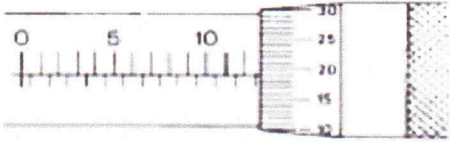
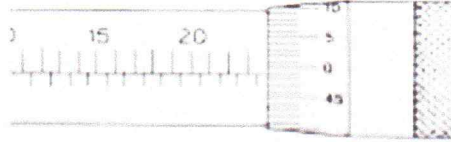
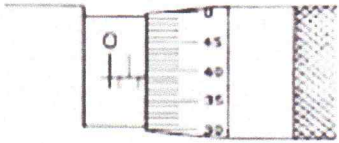
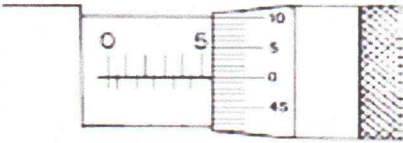
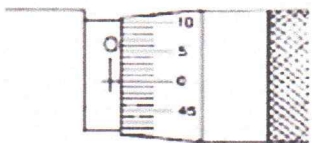
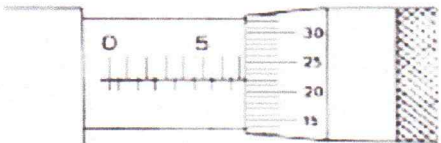
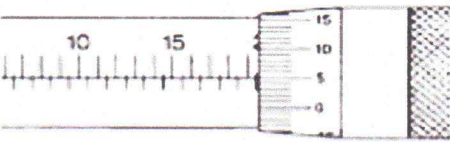
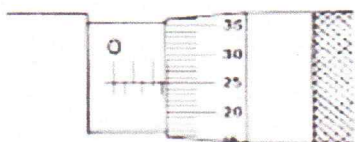
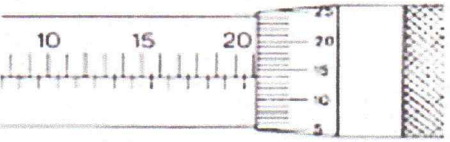
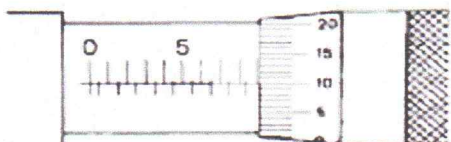


Jawaban : 6,49 mm



KEGIATAN 3: PENGUKURAN DASAR & PREKISI

Bacaan Metric Micrometer

<p>3.1</p>  <p>Jawaban : <u>12,69 mm</u></p>	<p>3.2</p>  <p>Jawaban : <u>23,99 mm</u></p>
<p>3.3</p>  <p>: <u>1,89 mm</u></p>	<p>3.4</p>  <p>: <u>5mm</u></p>
<p>3.5</p>  <p>Jawaban : <u>0 mm</u></p>	<p>3.6</p>  <p>Jawaban : <u>7,22 mm</u></p>
<p>3.7</p>  <p>Jawaban : <u>19,55 mm</u></p>	<p>3.8</p>  <p>Jawaban : <u>2,25 mm</u></p>
<p>3.9</p>  <p>Jawaban : <u>21,14 mm</u></p>	<p>3.10</p>  <p>Jawaban : <u>9,10 mm</u></p>

