

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

Skill Number CO-OP15GN105

Full Name: DATA HANIF I

No ID: 04

Validation Date: 13 Maret 2026

School: SMPN 1 SINGOSARI

**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%.	✓			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 / Hints
	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	✓			Using of consumables CC 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				
Ensure all systems or conditions are in standard condition.	✓			<ul style="list-style-type: none"> <li>Find the improper condition.</li> <li>Communicate the finding to the customer/assessor.</li> </ul>

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"> <li>Completing the Task List</li> <li>Completing Measurement Form/Related Check Sheet, if required</li> <li>Create Service Report (SIMS), if required</li> <li>Create SPR, if required</li> <li>Documenting the failed or damaged parts, if required</li> <li>Provide Technical Analysis Report/failure Analysis Report, if required.</li> </ul>

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

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

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



General Comments

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

Student: DORA HANIT I 13/03/2026  
Name Date Signature

Assessor: Schirwan 13/03/2026  
Name Date Signature

Supervisor: \_\_\_\_\_  
Name 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: Dafa Hanil i

No ID: CU

Validation Date: 13 Maret 2026

School: SMKN 1 SINGOSARI

**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%.	✓			

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 / Hints
	Yes	No	N/A	
Perform etiquette/manner when starting the job	✓			
Meet the customer / assessor	✓			
Perform etiquette/manner when opening the interaction.	✓			
Explain the purpose of Student's activity.	✓			
Ask permission to perform the job.	✓			

Tasks	Completed			Observation / Hints
	Yes	No	N/A	
<b>Selecting, Using and Maintaining a range of Precision and Non-Precision Tools</b>				
1. Inspect the measuring tool before using	✓			
2. Clean tool and component	✓			
3. Calibrate measuring tools before using	✓			
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.	✓			
5. Tasks completed without damage to equipment and tools	✓			
6. Equipment and tooling are cleaned and returned to its correct location	✓			
7. Record the reading of the measurements	✓			
<b>Documentation:</b>				
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	✓			
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	
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: Dora Hanif I Date: 13/03/2026 Signature: [Signature]

Assessor: Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_

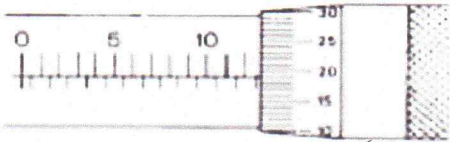
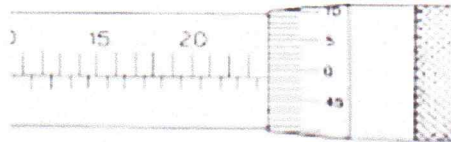
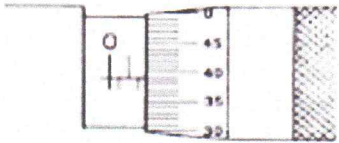
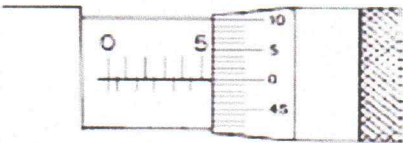
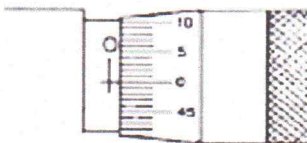
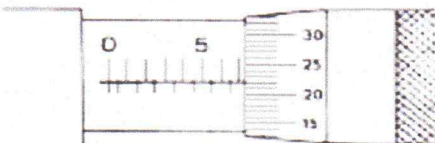
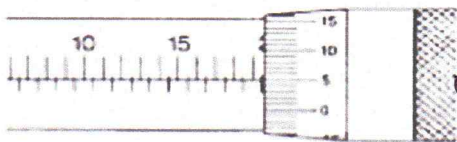
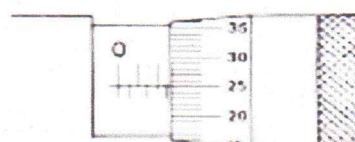
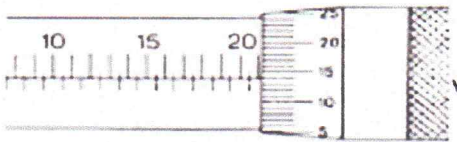
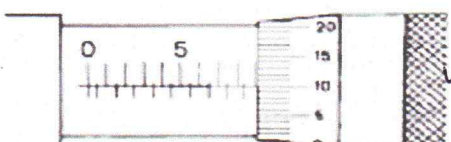
Supervisor: Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_

Data Recorded: Name: \_\_\_\_\_ Date: \_\_\_\_\_ Signature: \_\_\_\_\_



**KEGIATAN 3: PENGUKURAN DASAR & PREKISI**

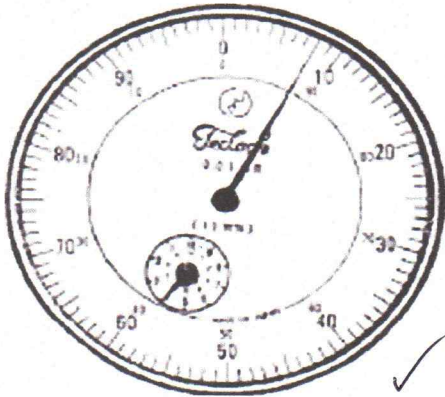
**Bacaan Metric Micrometer**

<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>5 mm</u> X</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>2.75 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>



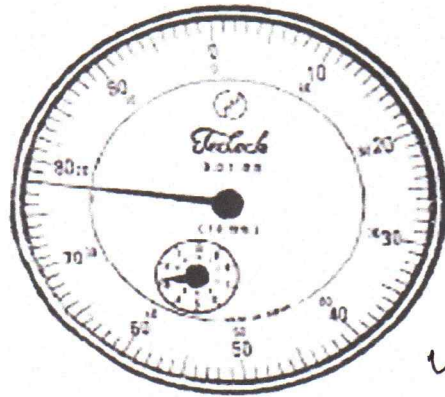
**Bacaan Metric Indicator**

3.11



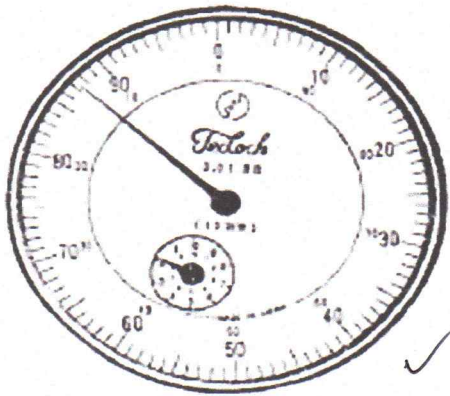
Jawaban : 4.08 mm

3.12



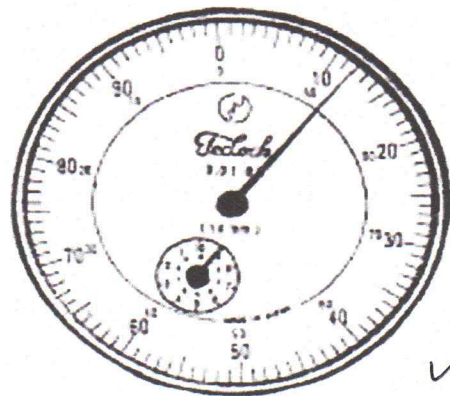
Jawaban : 2.78 mm

3.13



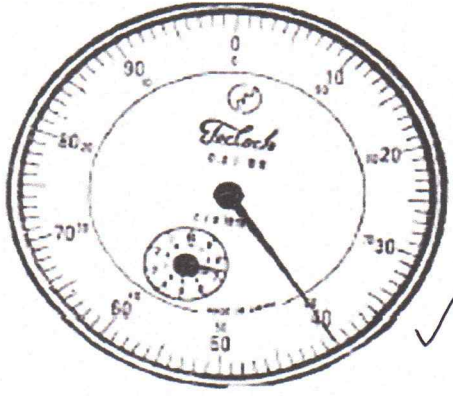
Jawaban : 1.87 mm

3.14



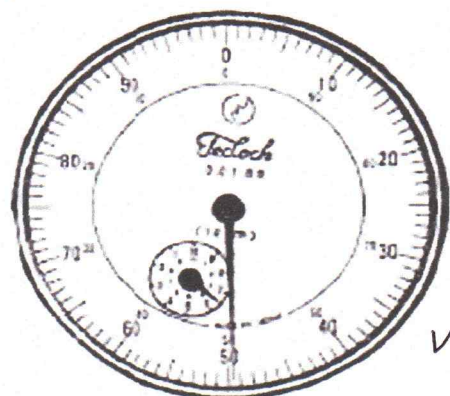
Jawaban : 9.12 mm

3.15



Jawaban : 7.40 mm

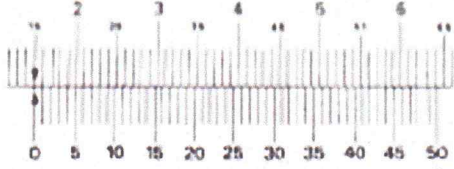
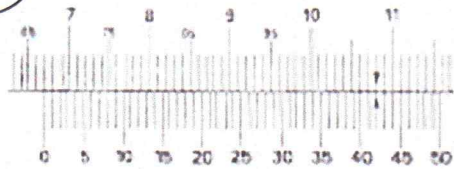
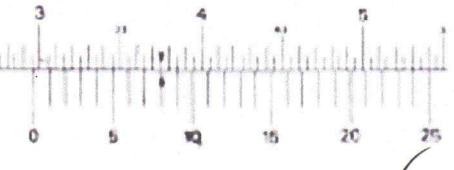
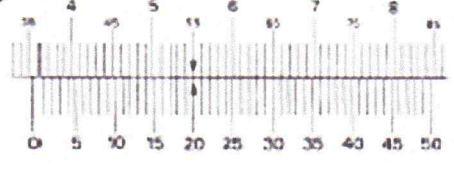
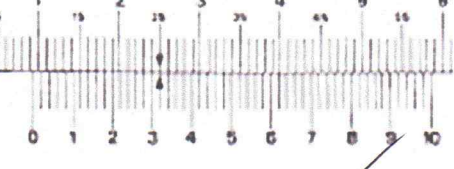
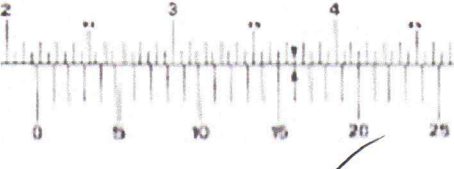
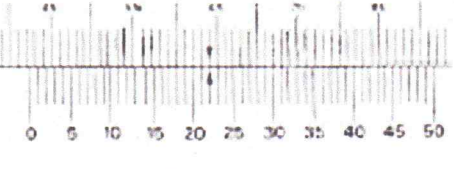


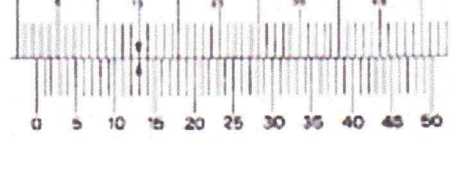
3.16



Jawaban : ~~6.49~~ 6.49 mm

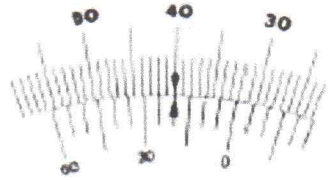
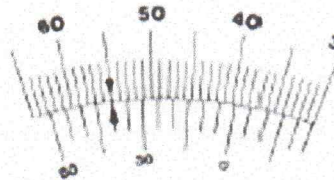
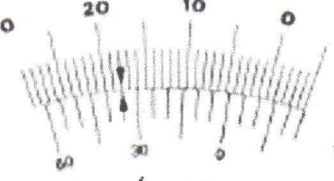
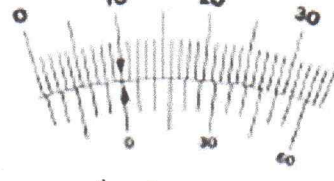
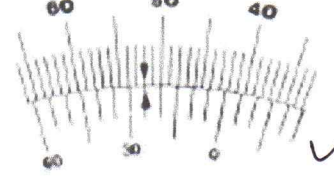
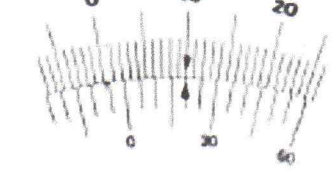
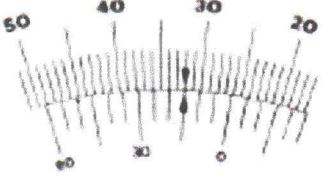
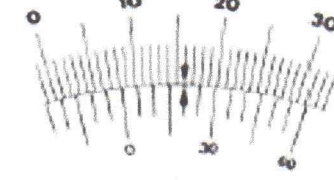
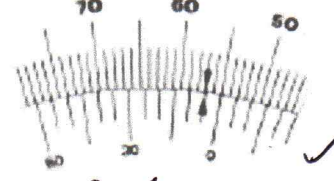
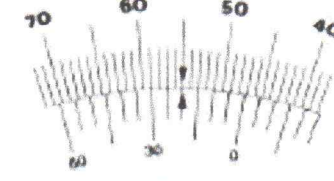


Bacaan Metric Vernier

<p>3.17</p>  <p>Jawaban : <u>15 mm</u> ✓</p>	<p>3.18</p>  <p>Jawaban : <u>67.42 mm</u></p>
<p>3.19</p>  <p>Jawaban : <u>29.58 mm</u> ✓</p>	<p>3.20</p>  <p>Jawaban : <u>35.20 mm</u></p>
<p>3.21</p>  <p>Jawaban : <u>9.31 mm</u> ✓</p>	<p>3.22</p>  <p>Jawaban : <u>21.66 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>

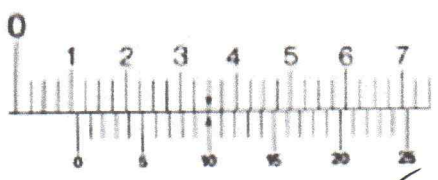
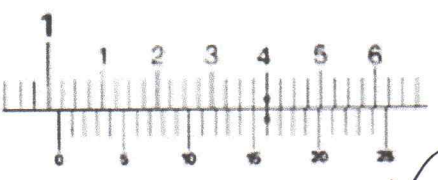
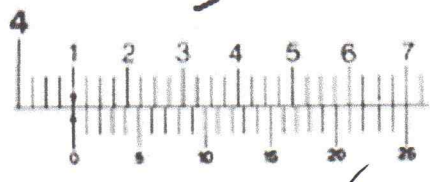
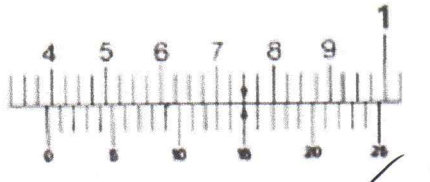
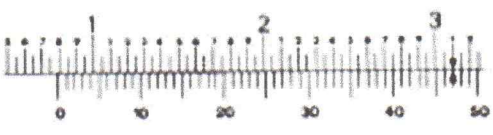
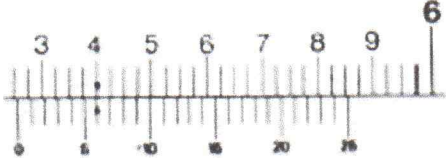
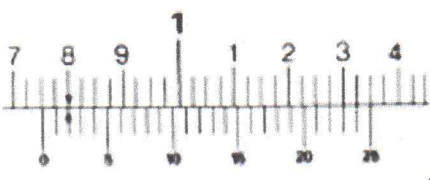

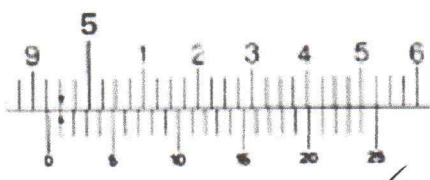
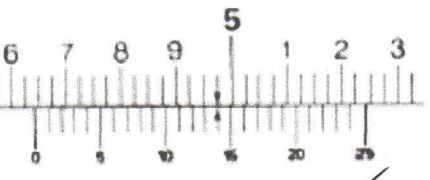
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1913	...
1914	...
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1922	...
1923	...
1924	...
1925	...
1926	...
1927	...
1928	...
1929	...
1930	...
1931	...
1932	...
1933	...

Bacaan Vernier Protractor

<p>3.27</p>  <p>: <math>32^{\circ} 20'</math> ✓</p>	<p>3.28</p>  <p>: <del><math>40^{\circ} 40'</math></del> <math>40^{\circ} 40'</math> ✓</p>
<p>3.29</p>  <p>: <math>4^{\circ} 35'</math> ✓</p>	<p>3.30</p>  <p>: <math>10^{\circ} 0'</math> ✓</p>
<p>3.31</p>  <p>: <math>42^{\circ} 25'</math> ✓</p>	<p>3.32</p>  <p>: <math>2^{\circ} 20'</math> ✓</p>
<p>3.33</p>  <p>: <math>26^{\circ} 15'</math> ✓</p>	<p>3.34</p>  <p>: <math>8^{\circ} 20'</math> ✓</p>
<p>3.35</p>  <p>: <math>55^{\circ} 5'</math> ✓</p>	<p>3.36</p>  <p>: <math>47^{\circ} 20'</math> ✓</p>



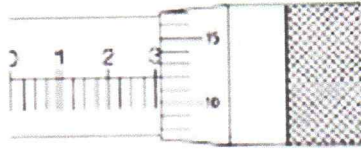
## Latihan Membaca Vernier Inch

<p>3.37</p>  <p>Jawaban : <u>0.110</u> Inch ✓</p>	<p>3.38</p>  <p>Jawaban : <u>1.016</u> Inch ✓</p>
<p>3.39</p>  <p>Jawaban : <u>4.1</u> Inch ✓</p>	<p>3.40</p>  <p>Jawaban : <u>0.390</u> Inch ✓</p>
<p>3.41</p>  <p>Jawaban : <u>0.797</u> Inch ✓</p>	<p>3.42</p>  <p>Jawaban <del>2.56</del> <u>5.256</u> Inch</p>
<p>3.43</p>  <p>Jawaban : <u>0.752</u> Inch ✓</p>	<p>3.44</p>  <p>Jawaban : <u>0.420</u> Inch ✓</p>
<p>3.45</p>  <p>Jawaban : <u>4.926</u> Inch ✓</p>	<p>3.46</p>  <p>Jawaban : <u>4.639</u> Inch ✓</p>



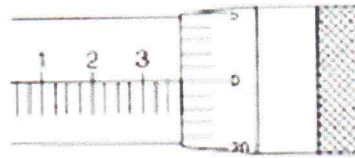
**Latihan Membaca Micrometer Inch**

3.47



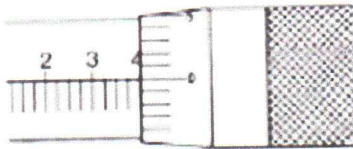
Jawaban : 03.12 Inch

3.48



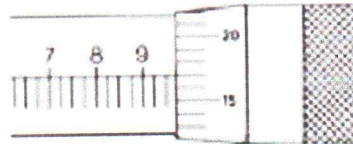
Jawaban : 03.75 Inch

3.49



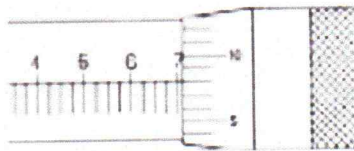
: 04 Inch

3.50



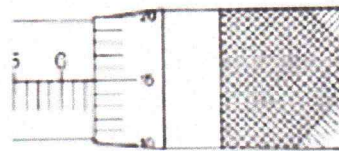
: 09.67 Inch

3.51



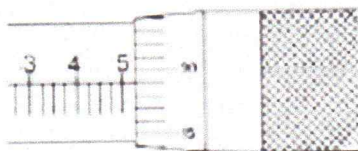
Jawaban : ~~07.08~~ 07.08 Inch

3.52



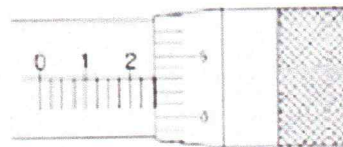
Jawaban : 06.65 Inch

3.53



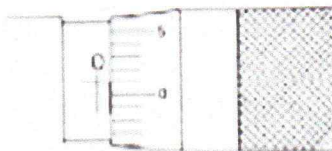
Jawaban : 05.19 Inch

3.54



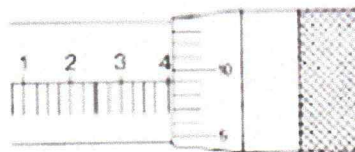
Jawaban : 02.53 Inch

3.55



Jawaban : 00.26 Inch

3.56



Jawaban : ~~4.09~~ 04.09 Inch

