

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

Skill Number CO-OP15GN105

Full Name: Maryana Adern Chisty

No ID: 11

Validation Date: 13 - 03 - 2026

School: SMPN 01 SINGOAR1

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	
Selecting, Using and Maintaining a range of Precision and Non-Precision Tools				
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	✓			
Documentation:				
Take picture if needed	✓			

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

Skill Number CO-OP15GN105

Full Name: Meryana Adaria Chyry

No ID: 11

Validation Date: 13-03-2026

School: SMKN 01 SINGGAR1

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	
Preparation	✓		
Prepare related literature	✓		
Prepare required equipment	✓		
Prepare related tools	✓		
Prepare Safety & Contamination Control equipment	✓		

Tasks	Yes	No	N/A	Observation/Hints
Perform etiquette/manner when starting the job	✓			
Meet the customer / assessor	✓			
Perform etiquette/manner when opening the interaction.	✓			<ul style="list-style-type: none"> • Perform smile & greetings. • Introduce Student's Identity
Explain the purpose of Student's activity.	✓			
Ask permission to perform the job.	✓			

Tasks	Yes	No	N/A	Observation/Hints
Selecting, Using and Maintaining a range of Precision and Non-Precision Tools:				
1. Inspect the measuring tool before using	✓			Visual inspection of the measuring tool for wear, cracks, damage
2. Clean tool and component	✓			Using of consumables CC tools
3. Calibrate measuring tools before using	✓			Tools should be calibrated as given 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 and the pressure gauge without tolerance
5. Tasks completed without damage to equipment and tools	✓			Component and tooling are cleaned and assembled as given procedure
6. Equipment and tooling are cleaned and returned to its correct location	✓			Cleaned and stored equipment/tools on the right place.
7. Record the reading of the measurements	✓			Write the actual reading on the paper given by the assessor
Documentation:				
Take picture if needed				

Tasks	Completed		Observation / Hints
	Yes	No	
Perform close the job by ensuring all systems or conditions is in the standard condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Tasks	Completed		Observation / Hints
	Yes	No	
All relevant documentation completed correctly and approved by customer (if required).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<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.
Reporting	<input type="checkbox"/>	<input type="checkbox"/>	

Tasks	Completed		Observation / Hints
	Yes	No	
Safety	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Using PPE related to the job	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Follows relevant Workplace Safety Guidelines (LOTO, Safety Equipment)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comply with safety regulation that applied on the workplace
State and follow Safety Precautions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> Correct working position Correct hand tool related to the job
Tasks completed without damage equipment and tools	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

Tasks	Completed		Observation / Hints
	Yes	No	
Perform etiquette/manner after completing the job	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> Perform smile & greetings. Ask permission to leave or end the interaction.
Perform etiquette/manner when closing the communication.	<input type="checkbox"/>	<input type="checkbox"/>	

General Comments

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

Student: Martynaq Date: 13-03-2026

Name: _____ Date: _____ Signature: [Signature]

Assessor: [Signature] Date: 13-3-2026 Signature: [Signature]

Name: _____ Date: _____ Signature: _____

Supervisor: _____ Date: _____ Signature: _____

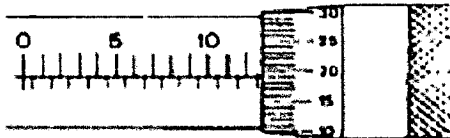
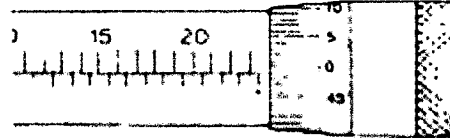
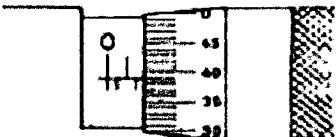
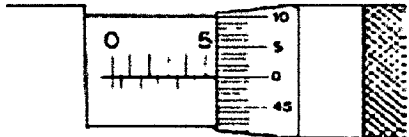
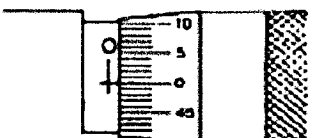

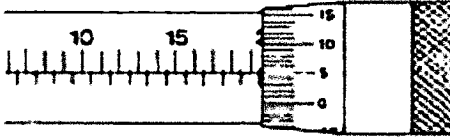
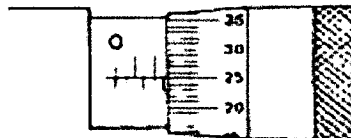
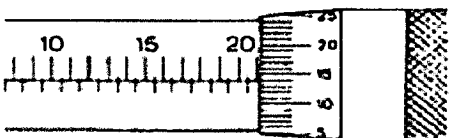
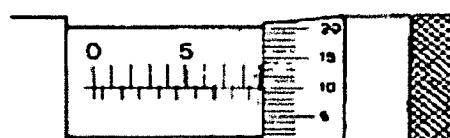
Data Recorded: Name _____ Date _____ Signature _____

KEGIATAN 3: PENGUKURAN DASAR & PREKISI

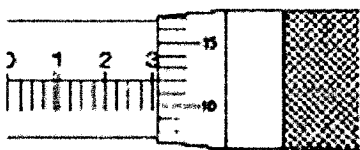
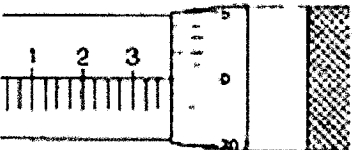
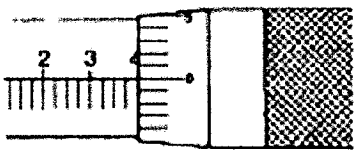
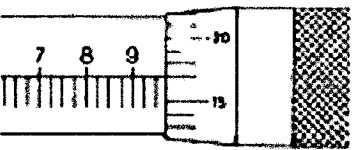
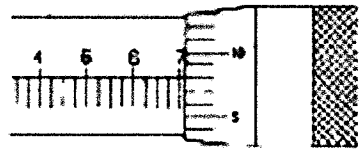
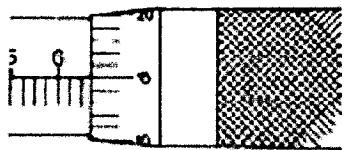
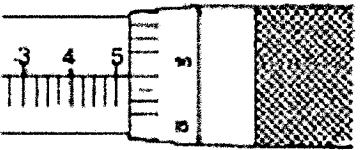
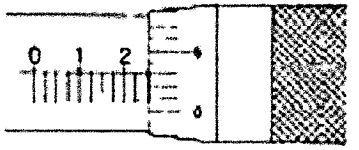
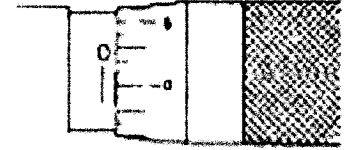
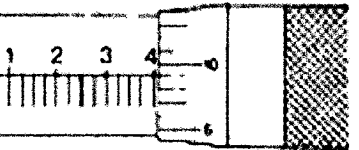
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Bacaan Metric Micrometer


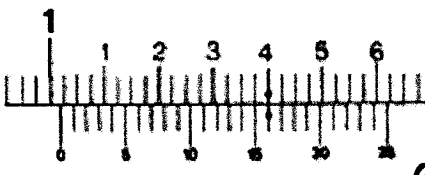

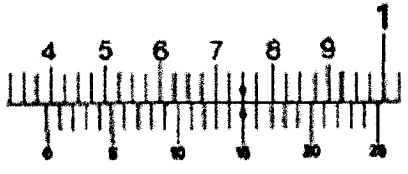
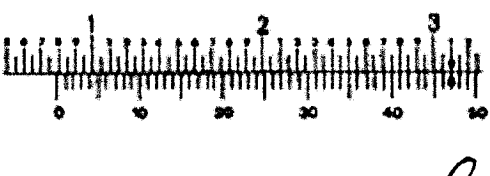
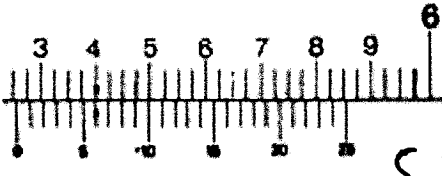
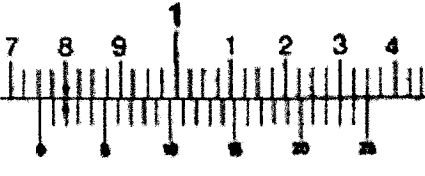
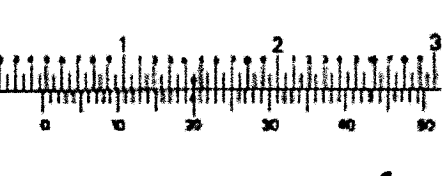
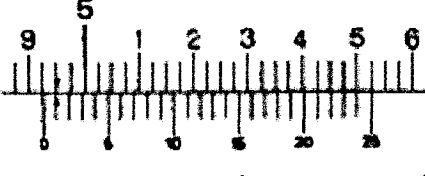
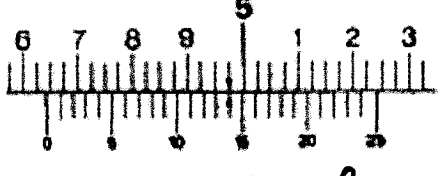
50
29
89

<p>3.1</p>  <p>Jawaban : <u>12,69</u> R.</p>	<p>3.2</p>  <p>Jawaban : <u>23,99</u> R.</p>
<p>3.3</p>  <p>Jawaban : <u>1,89</u> R.</p>	<p>3.4</p>  <p>Jawaban : <u>5,50</u> R.</p>
<p>3.5</p>  <p>Jawaban : <u>0,50 mm</u> R.</p>	<p>3.6</p>  <p>Jawaban : <u>7,22</u> R.</p>
<p>3.7</p>  <p>Jawaban : <u>19,55</u> R.</p>	<p>3.8</p>  <p>Jawaban : <u>2,75</u> R.</p>
<p>3.9</p>  <p>Jawaban : <u>21,14</u> R.</p>	<p>3.10</p>  <p>Jawaban : <u>8,60</u> <u>9,10</u> R.</p>

Latihan Membaca Micrometer Inch

<p>3.47</p>  <p>Jawaban : <u>3,12 inchi</u> <i>0,12</i></p>	<p>3.48</p>  <p>Jawaban : <u>3,75 inchi</u> <i>0,375</i>"</p>
<p>3.49</p>  <p>Jawaban : <u>4 inchi</u> <i>0,400</i>"</p>	<p>3.50</p>  <p>Jawaban : <u>9,67</u> <i>0,967</i>"</p>
<p>3.51</p>  <p>Jawaban : <u>7,08 inchi</u> <i>0,708</i>"</p>	<p>3.52</p>  <p>Jawaban : <u>6,65 inchi</u> <i>0,665</i>"</p>
<p>3.53</p>  <p>Jawaban : <u>5,019 inchi</u> <i>0,519</i>"</p>	<p>3.54</p>  <p>Jawaban : <u>2,53 inchi</u> <i>0,253</i>"</p>
<p>3.55</p>  <p>Jawaban : <u>0,026 inchi</u></p>	<p>3.56</p>  <p>Jawaban : <u>4,09 inchi</u> <i>0,409</i>"</p>

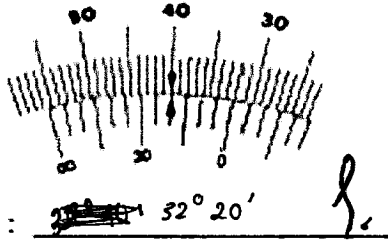
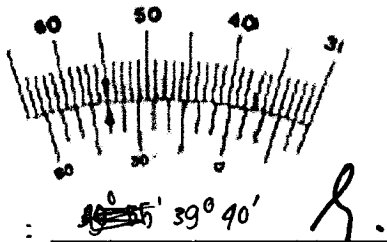
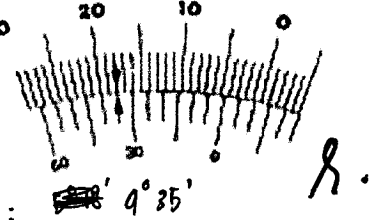
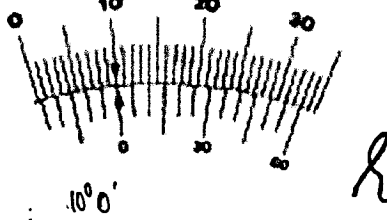
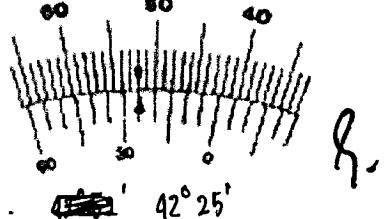
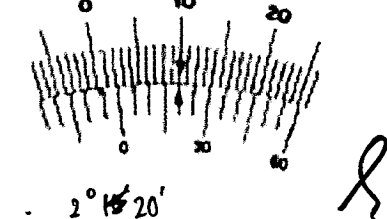
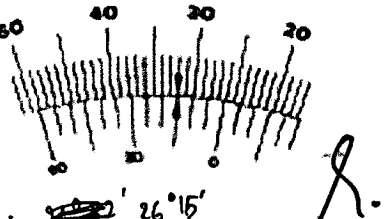
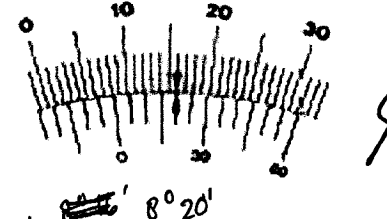

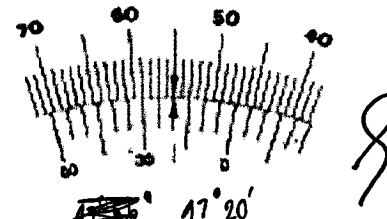
Latihan Membaca Vernier Inch

<p>3.37</p>  <p>Jawaban : <u>0,10 inchi</u> <i>R.</i></p>	<p>3.38</p>  <p>Jawaban : <u>1,016 inchi</u> <i>R.</i></p>
<p>3.39</p>  <p>Jawaban : <u>4,1 inchi</u> <i>R.</i></p>	<p>3.40</p>  <p>Jawaban : <u>0,390 inchi</u></p>
<p>3.41</p>  <p>Jawaban : <u>0,797 inchi</u> <i>R.</i></p>	<p>3.42</p>  <p>Jawaban <u>5,256 inchi</u> <i>5,506</i></p>
<p>3.43</p>  <p>Jawaban : <u>0,752 inchi</u> <i>R.</i></p>	<p>3.44</p>  <p>Jawaban : <u>0,470 inchi</u> <i>R.</i></p>
<p>3.45</p>  <p>Jawaban : <u>4,926 inchi</u> <i>R.</i></p>	<p>3.46</p>  <p>Jawaban : <u>4,639 inchi</u> <i>R.</i></p>

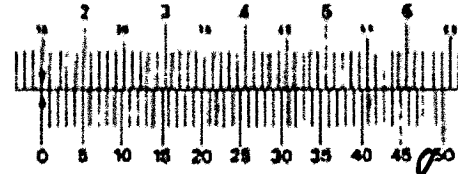
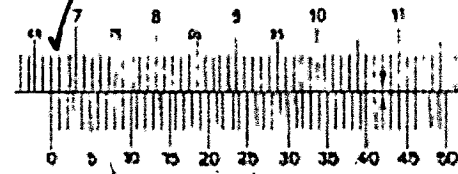
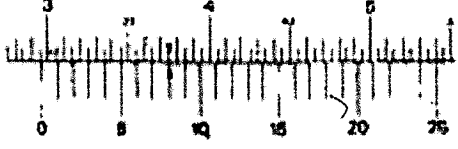
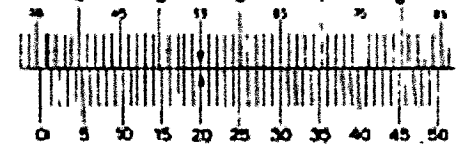
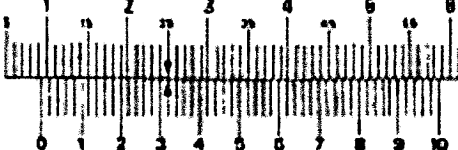
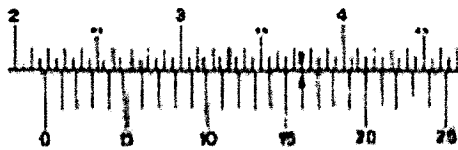
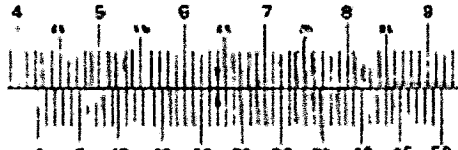

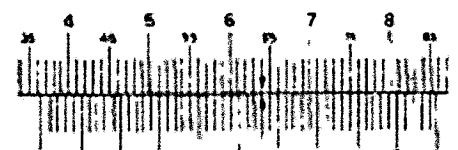
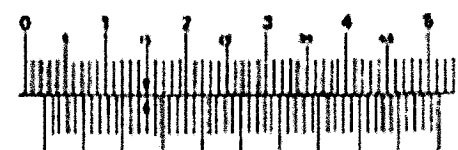
$\frac{1}{15}$
 $\frac{15}{90}$

$\frac{25}{14}$
 $\frac{39}{90}$

Bacaan Vernier Protractor

<p>3.27</p>  <p>: 32° 20' 32° 20' <i>R.</i></p>	<p>3.28</p>  <p>: 39° 40' 39° 40' <i>R.</i></p>
<p>3.29</p>  <p>: 4° 35' 4° 35' <i>R.</i></p>	<p>3.30</p>  <p>: 10° 0' <i>R.</i></p>
<p>3.31</p>  <p>: 42° 25' 42° 25' <i>R.</i></p>	<p>3.32</p>  <p>: 2° 15' 20' 2° 15' 20' <i>R.</i></p>
<p>3.33</p>  <p>: 26° 15' 26° 15' <i>R.</i></p>	<p>3.34</p>  <p>: 8° 20' 8° 20' <i>R.</i></p>
<p>3.35</p>  <p>: 55° 5' 55° 5' <i>R.</i></p>	<p>3.36</p>  <p>: 17° 20' 17° 20' <i>R.</i></p>

Bacaan Metric Vernier

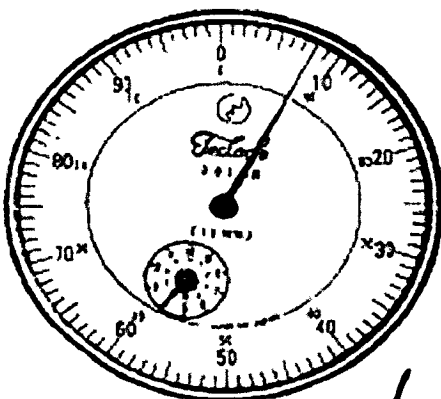
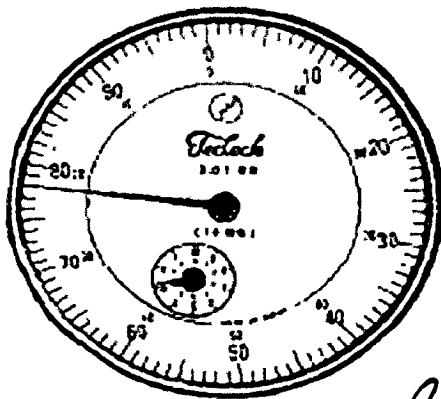
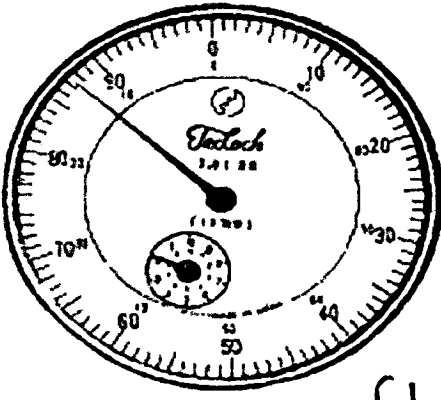
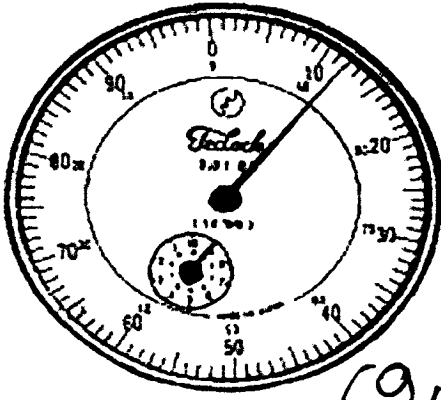
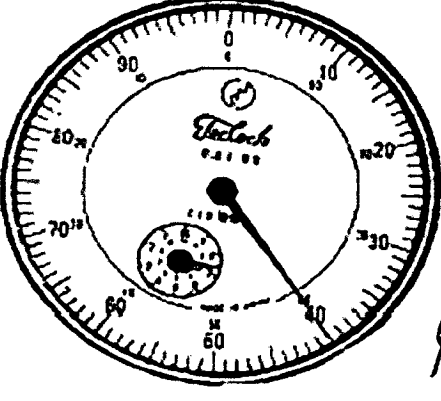
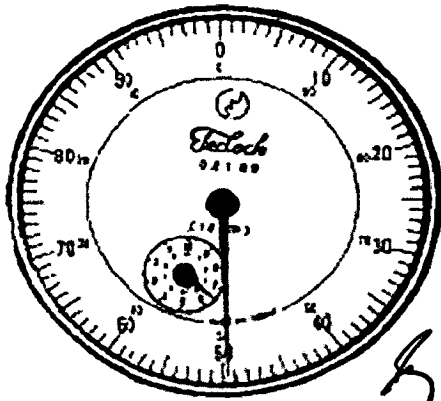
<p>3.17</p>  <p>Jawaban : <u>15 mm</u> <i>R.</i></p>	<p>3.18</p> <p>66</p>  <p>Jawaban : <u>67,84 mm (66,84)</u></p>
<p>3.19</p>  <p>Jawaban : <u>19,66 mm</u> <i>R.</i></p>	<p>3.20</p>  <p>Jawaban : <u>35,40 mm</u> <i>R.</i></p>
<p>3.21</p>  <p>Jawaban : <u>9,31 mm</u> <i>R.</i></p>	<p>3.22</p>  <p>Jawaban : <u>21,82 mm (21,84)</u></p>
<p>3.23</p>  <p>Jawaban : <u>42,22 mm (42,44)</u></p>	<p>3.24</p>  <p>Jawaban : <u>11,54 mm</u> <i>R.</i></p>
<p>3.25</p>  <p>Jawaban : <u>36,56 mm</u> <i>R.</i></p>	<p>3.26</p>  <p>Jawaban : <u>2,26 mm</u> <i>R.</i></p>

21,80
16
~~66~~

16
2
7

13
2
6

Bacaan Metric Indicator

<p>3.11</p>  <p>Jawaban : <u>4,08 mm</u> <i>h.</i></p>	<p>3.12</p>  <p>Jawaban : <u>2,78 mm</u> <i>h.</i></p>
<p>3.13</p>  <p>Jawaban : <u>2,87 mm</u> <i>(1,87)</i></p>	<p>3.14</p>  <p>Jawaban : <u>8,12 mm</u> <i>(9,12)</i></p>
<p>3.15</p>  <p>Jawaban : <u>7,90 mm</u> <i>h.</i></p>	<p>3.16</p>  <p>Jawaban : <u>6,99</u> <i>h.</i></p>