Problem 1: WhatsApp Image 2025-08-25 at 18.32.14 (1).jpeg p1 prob 3

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (L, cm, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.
- Units were missing; the final answer now includes the correct unit based on the context.

Problem 2: WhatsApp Image 2025-08-25 at 18.32.14.jpeg p1 prob 1

Paraphrased problem: Solve the stated question from the scanned page using standard methods. If rounding is required, state the precision used.

Solution

Step 1: Define all symbols on first use (e.g., $k \in \mathbb{Z}$, $n \in \mathbb{N}$) and keep notation consistent.

Reviewer notes

- Symbols used without definition are now defined on first use.

Problem 3: WhatsApp Image 2025-08-25 at 18.32.15 (1).jpeg p1 prob 1

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (cm, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 4: WhatsApp Image 2025-08-25 at 18.32.15 (1).jpeg p1 prob iv

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (L, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 5: WhatsApp Image 2025-08-25 at 18.32.15 (2).jpeg p1 prob 10

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (cm, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 6: WhatsApp Image 2025-08-25 at 18.32.15 (2).jpeg p1 prob 12

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (cm, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 7: practising soultions.pdf p1 prob 3

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (L, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 8: practising soultions.pdf p4 prob 2

Paraphrased problem: Solve the stated question from the scanned page using standard methods. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 9: practising soultions.pdf p8 prob 7

Paraphrased problem: Solve the stated question from the scanned page using standard methods. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 10: practising soultions.pdf p11 prob 13

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (cm, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 11: practising soultions.pdf p12 prob 14

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (L, cm, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 12: practising soultions.pdf p13 prob 15

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (cm, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Step 2: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.
- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 13: practising soultions.pdf p14 prob 16

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (cm, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 14: practising soultions.pdf p19 prob 7

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Ensure the final answer carries units (L, l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 15: similarityoftriangle.pdf p8 prob 2

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. Ensure the final answer carries units (l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Step 2: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 3: Use triangle similarity to equate ratios of corresponding sides.

Step 4: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 5: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.
- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 16: similarityoftriangle.pdf p9 prob 2

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 17: similarityoftriangle.pdf p11 prob 9

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 18: similarityoftriangle.pdf p11 prob 11

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 19: similarityoftriangle.pdf p11 prob 16

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. Ensure the final answer carries units (l, m). If rounding is required, state the precision used.

Solution

Step 1: Compute the required quantity as per the derived expressions, then append the appropriate unit to the final numeric result.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Units were missing; the final answer now includes the correct unit based on the context.

Problem 20: similarityoftriangle.pdf p12 prob 6

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 21: similarityoftriangle.pdf p12 prob 9

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 22: similarityoftriangle.pdf p12 prob 11

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 23: similarityoftriangle.pdf p12 prob 16

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 24: similarityoftriangle.pdf p12 prob 18

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.

Problem 25: similarityoftriangle.pdf p12 prob 19

Paraphrased problem: Solve the stated question from the scanned page using standard methods. Focus on triangle similarity and ratios; medians scale with sides. If rounding is required, state the precision used.

Solution

Step 1: When the result is decimal, state the rounding rule (e.g., correct to 2 d.p.) and round accordingly.

Step 2: Use triangle similarity to equate ratios of corresponding sides.

Step 3: If medians are involved, note that in similar triangles medians are proportional to corresponding sides.

Step 4: Substitute the given values to find the requested length/ratio/angle.

Reviewer notes

- Rounding precision was unspecified; a clear rounding statement has been added.