

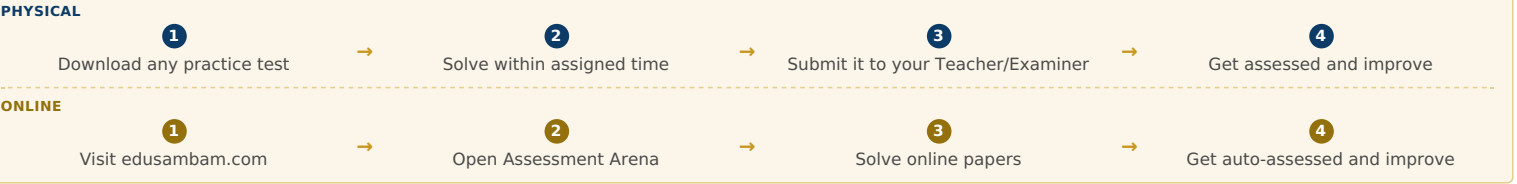
EDUSAMBAM ASSESSMENT SERIES

Time & Area / Volume

PRINTABLE PRACTICE WORKSHEET

EDUSAMBAM, working on building your Foundational Concepts. Visit edusambam.com for Auto-graded Self-assessment Experience.

YOUR PHYSICAL & ONLINE SELF-ASSESSMENT ROADMAP



Candidate Name:		Roll No.:	
Class / Grade:		Date:	
School / Institution:		Test Centre:	

Subject	Mathematics (Maths)	Topic	Time & Area / Volume	Total Marks	100
Total Questions	45	Time Allowed	1 Hour (60 minutes)	Version	A

GENERAL INSTRUCTIONS

1. Read each question carefully before answering.

2. For Section A and Section B, mark one answer only.

3. For Sections C and E, write your answer clearly in the space provided.

4. For Section D, write the correct letter from Column B against each item in Column A.

5. Do not use correction fluid. Keep all answers clear and legible.

6. This worksheet is prepared from the EDUSAMBAM practice assessment supplied for this paper.

PAPER PATTERN

Section	Questions	Marks Each	Total
Section A — Multiple Choice	15	2	30
Section B — True / False	10	2	20
Section C — Fill in the Blank	10	2	20
Section D — Column Matching	5 pairs	2	10
Section E — Short Answer	5	4	20
Total	45	—	100

Section A — Multiple Choice

30 marks

1. In 24-hour time, 3:00 PM is written as:

A. 0300

B. 1300

C. 1500

D. 1700

Answer: ☐A ☐B ☐C ☐D

Basic • 2 pts

2. In 12-hour time, 1800 hours is:

A. 6:00 AM

B. 6:00 PM

C. 8:00 PM

D. 18:00 AM

Answer: ☐A ☐B ☐C ☐D

Basic • 2 pts

3. How many hours are there in a full day?

A. 12

B. 24

C. 48

D. 60

Answer: ☐A ☐B ☐C ☐D

Basic • 2 pts

4. How many minutes are there in one hour?

A. 30

B. 60

C. 100

D. 120

Answer: ☐A ☐B ☐C ☐D

Basic • 2 pts

5. 9:45 AM in 24-hour time is written as:

A. 0945

B. 1945

C. 2145

D. 0845

Answer: ☐A ☐B ☐C ☐D

Intermediate • 2 pts

6. In 24-hour time, midnight is written as:

A. 1200

B. 2400 or 0000

C. 1000

D. 0600

Answer: ☐A ☐B ☐C ☐D

7. A film starts at 1930 and lasts 2 hours. What time does it finish (24-hour time)?

A. 2030

B. 2130

C. 2230

D. 1730

Answer: ☐A ☐B ☐C ☐D

8. 12-hour clocks use AM and PM to show:

A. The day of the week

B. Whether it is before or after noon

C. The time zone

D. The season

Answer: ☐A ☐B ☐C ☐D

9. The area of a rectangle is calculated as:

A. length + width

B. length x width

C. 2 x (length + width)

D. length x width x height

Answer: ☐A ☐B ☐C ☐D

10. The area of a square with side 5 cm is:

A. 10 cm²

B. 20 cm²

C. 25 cm²

D. 15 cm²

Answer: ☐A ☐B ☐C ☐D

11. The volume of a cube is calculated as:

A. side x side

B. side x side x side

C. 6 x side

D. 4 x side

Answer: ☐A ☐B ☐C ☐D

12. What is the area of a rectangle with length 8 cm and width 3 cm?

A. 11 cm²

B. 22 cm²

C. 24 cm²

D. 32 cm²

Answer: ☐A ☐B ☐C ☐D

13. What is the volume of a cuboid with length 4 cm, width 3 cm, and height 2 cm?

A. 9 cm³

B. 14 cm³

C. 24 cm³

D. 28 cm³

Answer: ☐A ☐B ☐C ☐D

14. Area is measured in ____ units, while volume is measured in ____ units.

A. square, cubic

B. cubic, square

C. linear, square

D. square, linear

Answer: ☐A ☐B ☐C ☐D

15. A triangle has a base of 10 cm and a height of 6 cm. Its area is:

A. 16 cm²

B. 30 cm²

C. 60 cm²

D. 40 cm²

Answer: ☐A ☐B ☐C ☐D

Section B — True / False

20 marks

16. In 24-hour time, the hours run from 00 to 23.

A. True ☐

B. False ☐

17. 12-hour clock format always needs AM or PM to avoid confusion.

A. True ☐

B. False ☐

18. 1200 in 24-hour time is the same as 12:00 PM (noon).

A. True ☐

B. False ☐

19. 0001 in 24-hour time means one minute past midnight.

A. True ☐

B. False ☐

20. There are 100 minutes in one hour.

A. True ☐

B. False ☐

21. Area measures the amount of space inside a 2D shape.

A. True ☐

B. False ☐

22. Volume measures the amount of space inside a 3D shape.
A. True ☐ **B.** False ☐

23. The formula for the area of a rectangle is length × width.
A. True ☐ **B.** False ☐

24. The volume of a cube with side 3 cm is 9 cm³.
A. True ☐ **B.** False ☐

25. Area is always measured using square units, such as cm².
A. True ☐ **B.** False ☐

Intermediate • 2 pts

Intermediate • 2 pts

Intermediate • 2 pts

Intermediate • 2 pts

Section C — Fill in the Blank

20 marks

26. In 24-hour time, times are always written using ____ digits.
Answer: _____

27. AM stands for the hours ____ noon.
Answer: _____

28. PM stands for the hours ____ noon.
Answer: _____

29. 6:00 PM in 24-hour time is written as _____.
Answer: _____

30. There are ____ seconds in one minute.
Answer: _____

31. The space inside a 2D shape, like a rectangle, is called its _____.
Answer: _____

32. The space inside a 3D shape, like a cube, is called its _____.
Answer: _____

33. The area of a rectangle with length 6 cm and width 4 cm is ____ cm².
Answer: _____

34. The volume of a cuboid is found by multiplying length × width × _____.
Answer: _____

35. Area is measured in square units, while volume is measured in ____ units.
Answer: _____

Basic • 2 pts

Basic • 2 pts

Basic • 2 pts

Basic • 2 pts

Intermediate • 2 pts

Intermediate • 2 pts

Intermediate • 2 pts

Intermediate • 2 pts

Intermediate • 2 pts

Intermediate • 2 pts

Section D — Column Matching

10 marks

36-40. Match each term to its correct definition.

Column A	Answer	Column B
24-hour clock	_____	A. The amount of space inside a two-dimensional shape
Area	_____	B. The amount of space inside a three-dimensional shape
Volume	_____	C. The units used to measure volume, such as cm³
Square units	_____	D. A time format that runs from 00 to 23 with no AM or PM needed
Cubic units	_____	E. The units used to measure area, such as cm²

Section E — Short Answer

20 marks

41. Explain how to convert 2:15 PM into 24-hour time.

42. Explain the main advantage of using the 24-hour clock instead of the 12-hour clock.

Advanced • 4 pts

Advanced • 4 pts

43. Explain the difference between area and volume, and give one everyday example of each.

Advanced · 4 pts

44. Describe how to calculate the area of a rectangle, using an example with real numbers.

Advanced · 4 pts

45. Describe how to calculate the volume of a cuboid, using an example with real numbers.

Advanced · 4 pts

Candidate Signature: _____

Invigilator Signature: _____

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Marks Obtained: _____ / 100

Result / Grade: _____

Checked By: _____

Date Checked: _____

EDUSAMBAM ASSESSMENT SERIES

Time & Area / Volume — Answer Key

Teacher reference: equivalent grammatically correct wording is acceptable for open-ended items when the meaning is preserved.

Section A — Multiple Choice

1. C

2. B

3. B

4. B

5. A

6. B

7. B

8. B
9. B

10. C

11. B

12. C

13. C

14. A

15. B

Section B — True / False

16. True

17. True

18. True

19. True

20. False
21. True

22. True

23. True

24. False

25. True

Section C — Fill in the Blank

26. four

27. before

28. after

29. 1800

30. 60
31. area

32. volume

33. 24

34. height

35. cubic

Section D — Column Matching

36. 24-hour clock — D

37. Area — A

38. Volume — B
39. Square units — E

40. Cubic units — C

Section E — Short Answer (Model Answers)

41. 1415; add 12

42. no confusion; am pm; clear

43. 2d; 3d; flat; space inside

44. length; width; multiply

45. length; width; height; multiply