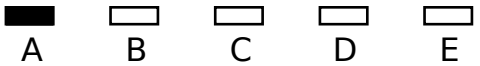
Answer Sheet

Paper Name: Maths-Perimeter Area Volume
Paper ID: CUSTOM-MA-639EBB372E
Full Name:

YOU MUST ANSWER ON THIS SHEET. TAKE A PICTURE USING THE EXAM HAPPY APP AFTERWARDS TO MARK YOUR WORK.

How to answer:



How not to answer:

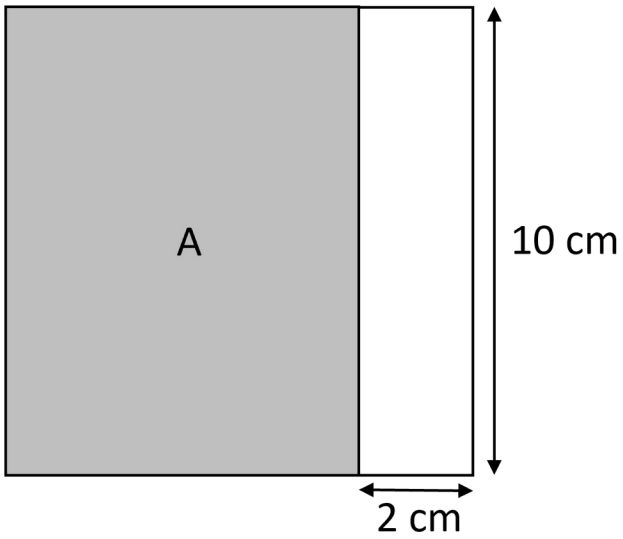
*Use the **free Exam Happy app** to **view the average** for this paper and learn from **video solutions***

1	A	B	C	D	E
2	A	B	C	D	E
3	A	B	C	D	E
4	A	B	C	D	E
5	A	B	C	D	E
6	A	B	C	D	E
7	A	B	C	D	E
8	A	B	C	D	E
9	A	B	C	D	E
10	A	B	C	D	E

11	A	B	C	D	E
12	A	B	C	D	E
13	A	B	C	D	E
14	A	B	C	D	E
15	A	B	C	D	E
16	A	B	C	D	E
17	A	B	C	D	E
18	A	B	C	D	E
19	A	B	C	D	E
20	A	B	C	D	E

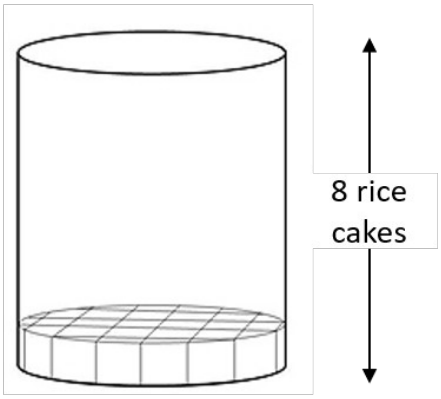
ENSURE 4 CORNER TRIANGLES ARE VISIBLE WHEN UPLOADING

1. **What is the area of the grey rectangle that is inside the white square?**



A 20 cm^2 **B** 100 cm^2 **C** 120 cm^2 **D** 80 cm^2 **E** 90 cm^2

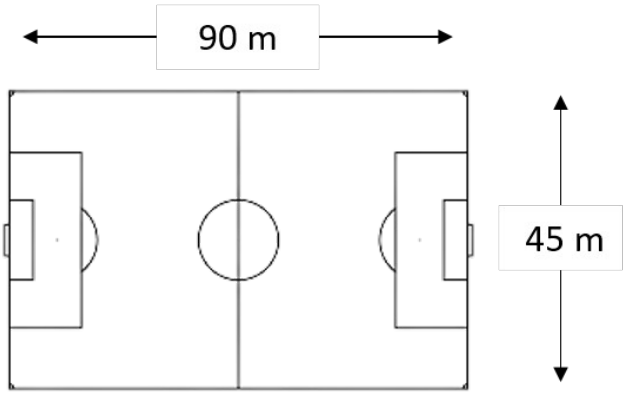
2. Rice-cakes come in packets of 8, and one rice cake has a volume of 65.5 cm^3.



What is the volume of the entire packet of rice-cakes?

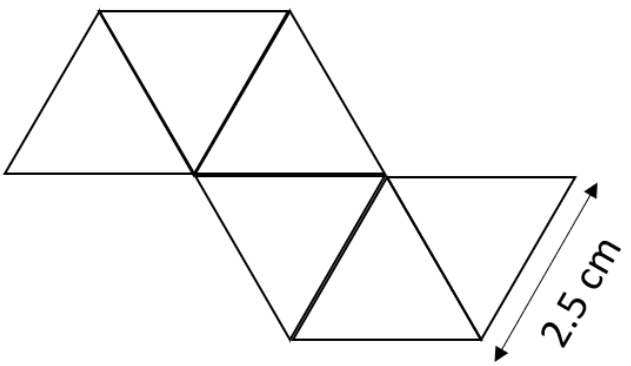
A 524 cm^3 **B** 81 cm^3 **C** 4194 cm^3 **D** 400 cm^3 **E** 520.5 cm^3

3. A football pitch is 90 m long and 45 m wide. What is the area of the football pitch?



A 45 m^2 **B** 4050 m^2 **C** 8100 m^2 **D** 4500 m^2 **E** 405 m^2

4. Chesky drew a 2D shape using equilateral triangles.

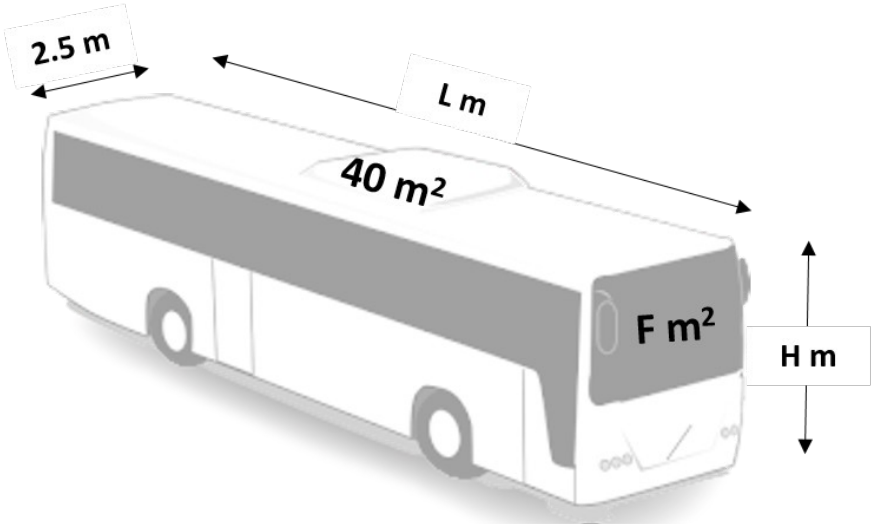


What is the perimeter of this shape?

A 22.5 cm **B** 15.0 cm **C** 20.0 cm **D** 32.5 cm **E** 17.5 cm

5. The volume of the coach below is 120 m^3 and the area of the top and bottom face of the coach are 40 m^2.

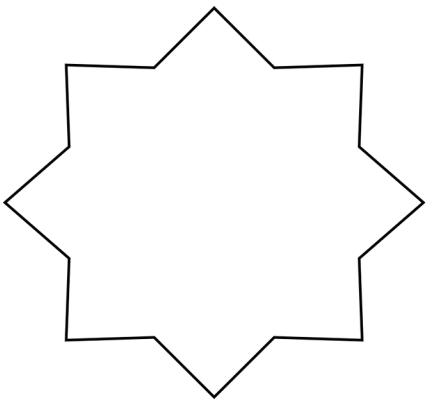
(Note: treat the coach as a perfect cuboid. I.e., Imagine that the coach has no wheels, and the faces are flat)



How long (L) is the coach?

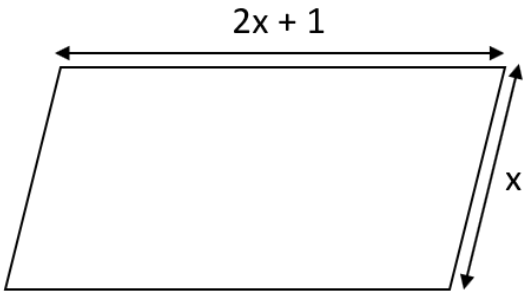
A 16 m **B** 3 m **C** 25 m **D** 8 m **E** 18.5 m

6. **What is the perimeter of the shape below if each edge is 50 cm long?**



A 7 m **B** 6 m **C** 9 m **D** 8 m **E** 10 m

7. **What is the perimeter of the below parallelogram?**



A 6x + 8 **B** 6x + 2 **C** 8x + 4 **D** 4x **E** 4x + 2

8. For a specific day, \$1.20 = £1.
A trader purchases shares for \$150.

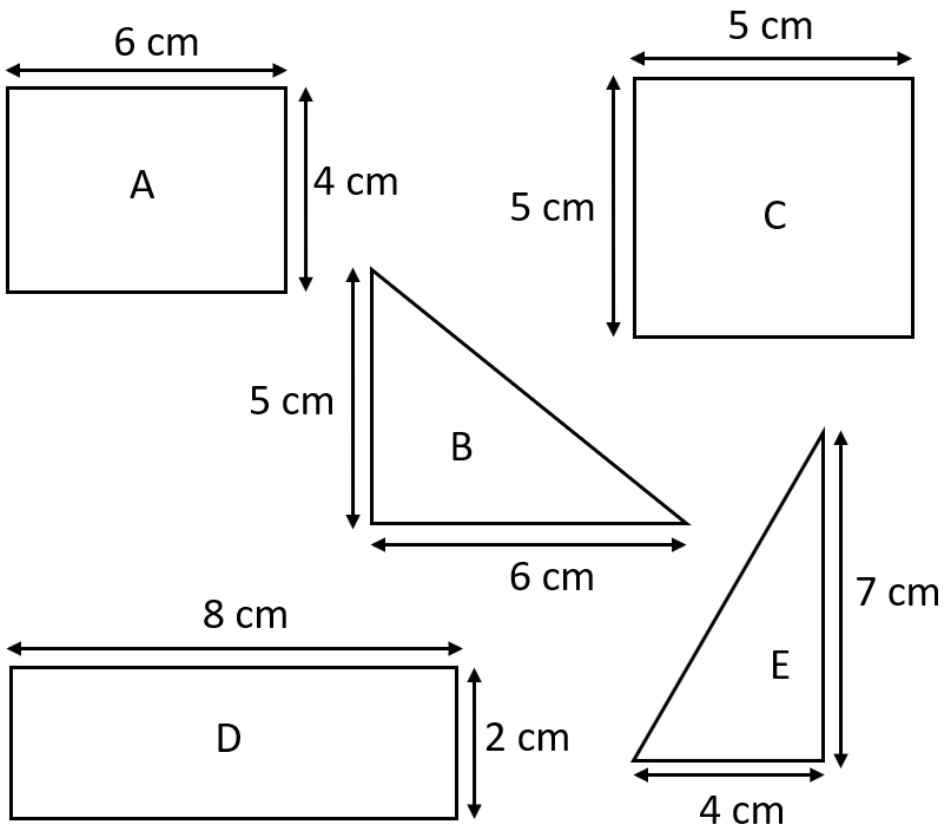
How many pounds are needed to buy these shares?

A £135 **B** £210 **C** £195 **D** £125 **E** £140

9. **What is the area of eight identical squares with side length of 12 cm?**

A 96 cm^2 **B** 1,248 cm^2 **C** 1,152 cm^2 **D** 768 cm^2 **E** 960 cm^2

10. Look at the following shapes.

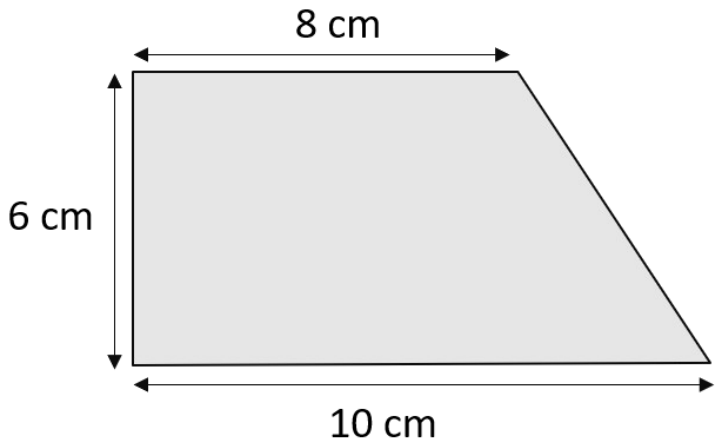


Not drawn to scale

Which one of these shapes has the largest area?

A A **B** B **C** C **D** D **E** E

11. **What is the area of this trapezium?**



A 54 cm^2 **B** 36 cm^2 **C** 108 cm^2 **D** 68 cm^2 **E** 48 cm^2

12. **How many cubes of size 2 cm can fit inside a cuboid of size 0.4 m x 0.6 m x 0.8 m?**

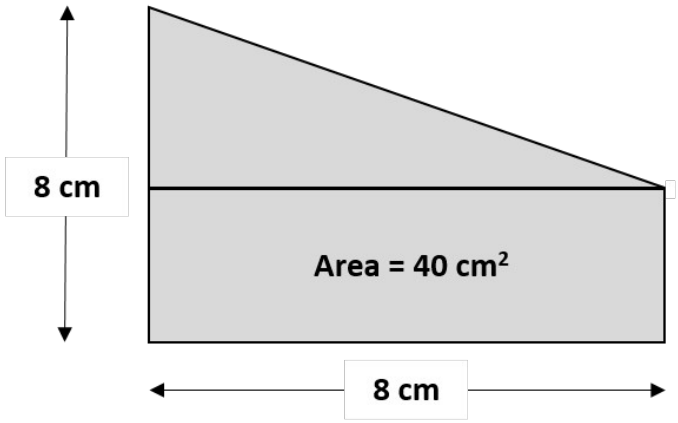
A 22,000 **B** 24,000 **C** 20,000 **D** 16,000 **E** 12,000

13. Small cubes with 4 cm side length are to be packed into a cuboid with dimensions 12 cm by 14 cm by 16 cm without any cutting.

How many such small cubes can be placed in the cuboid?

A 42 **B** 38 **C** 28 **D** 30 **E** 36

14. The diagram below is made from a rectangle and a right-angled triangle.



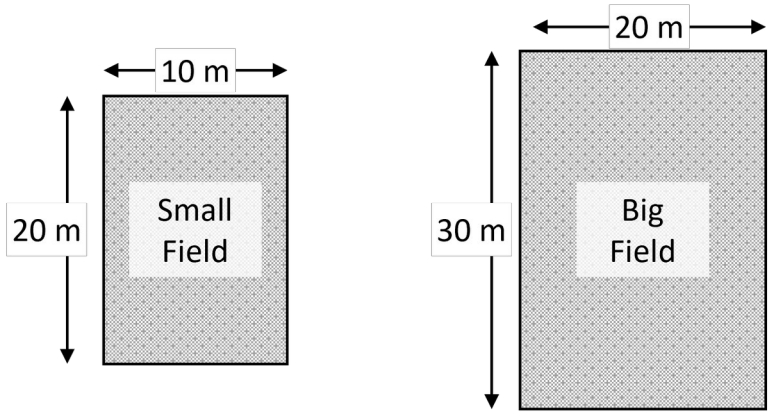
What is the area of the triangle?

A 20 cm^2 **B** 24 cm^2 **C** 15 cm^2 **D** 12 cm^2 **E** 12.5 cm^2

15. **What is the area of both the triangular faces if the height of the triangle is 2 cm?**

A 6 cm^2 **B** 3 cm^2 **C** 9 cm^2 **D** 12 cm^2 **E** 18 cm^2

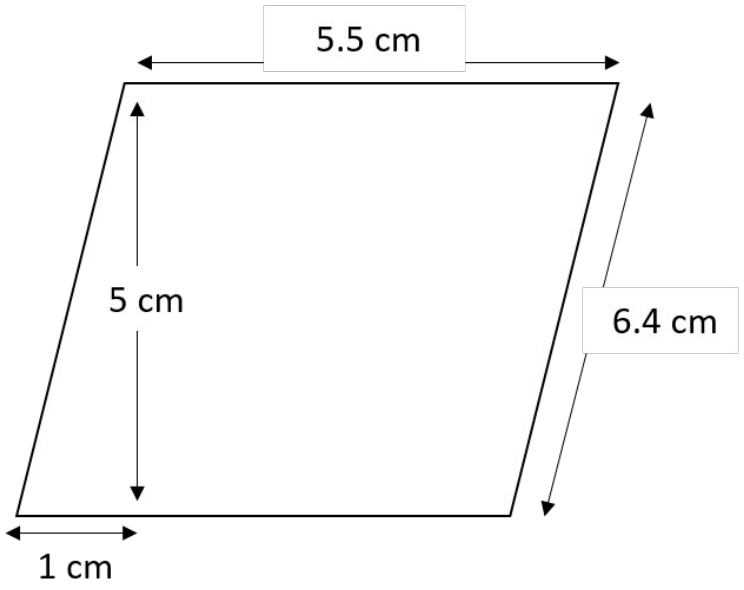
16. Children in a school are preparing for a cross-country race. The juniors must run four laps of the small field, and the seniors must run three laps of the big field.



How much further do the seniors have to run?

A 50 m **B** 60 m **C** 20 m **D** 40 m **E** 400 m

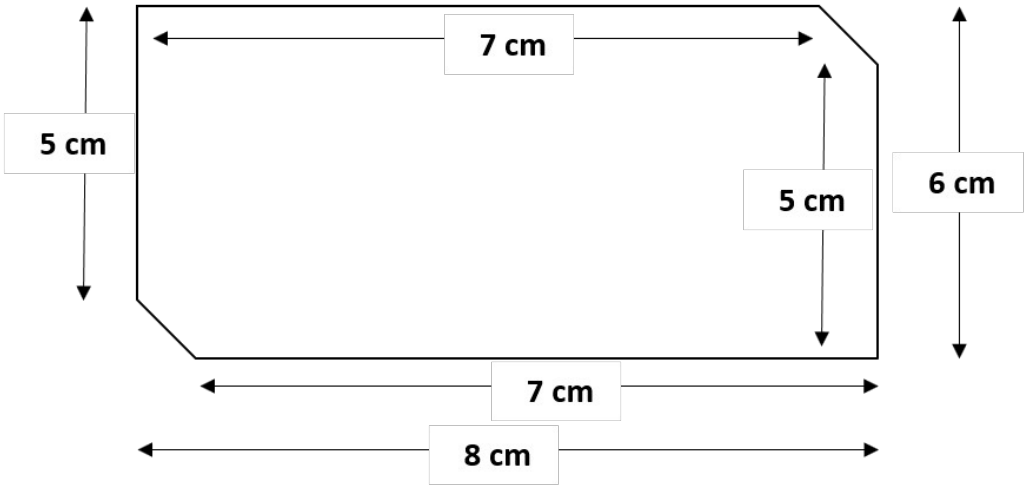
17. The shape below is a parallelogram:



What is the area of this shape?

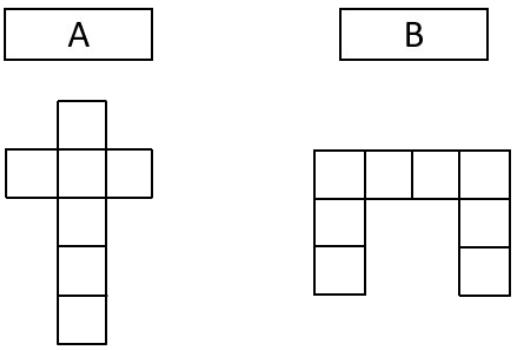
A 27.5 cm^2 **B** 25 cm^2 **C** 35.2 cm^2 **D** 32 cm^2 **E** 37.5 cm^2

18. **What is the area of the shape below?**



A 48 cm^2 **B** 47 cm^2 **C** 35 cm^2 **D** 42 cm^2 **E** 40 cm^2

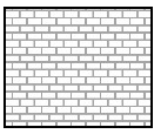
19. The shapes below are formed using identical squares. The perimeter of Shape A is 112 cm.



What is the area of Shape B?

A 256 cm^2 **B** 343 cm^2 **C** 112 cm^2 **D** 392 cm^2 **E** 49 cm^2

20. **What is the area of 1,200 of these tiles?**



40 cm

20 cm

A 0.8 m^2 **B** 800 m^2 **C** 8,000 m^2 **D** 9,600 m^2 **E** 96 m^2