

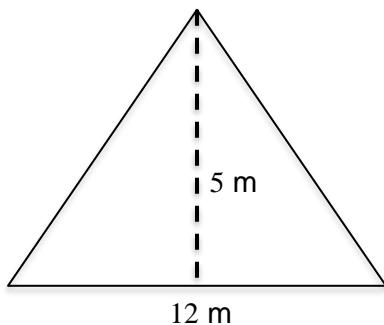
POTENT ACADEMY REVISION SERIES
MATHEMATICAL ACTIVITIES
GRADE 8 | MODEL 05

Name _____ Date _____

Instructions: Answer *ALL* the questions in the spaces provided.

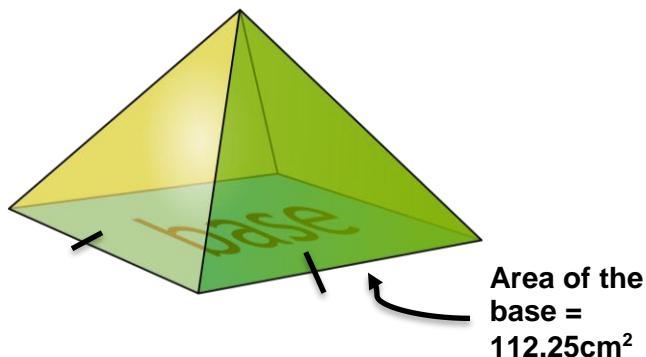
1. A farmer owns a square field with an area of 1024 m². Calculate the length of one side of the field.

2. The figure below shows a triangular piece of land with a base of 12m and a height of 5m. Calculate the area of the land in hectares.

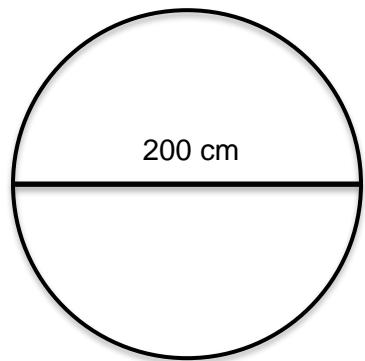


3. Mr. Kimani measured the temperature of a solution as 5°C. After one hour, the temperature decreased by 8°C. Use a number line to determine the final temperature of the solution.
4. John's height is 140 cm and his sister Jane's height is 160 cm.
 - a) Express John's height as a fraction of Jane's height.
 - b) Write the ratio of Jane's height to John's height.
5. The exterior angle of a regular polygon is 45°. Calculate the number of sides of the polygon.

6. The figure below shows the base of a square pyramid. What is the measure of one side of the base if it has an area of 12.25cm^2 ?



7. The figure below shows a circular flower bed with a diameter of 200cm. What is the circumference of the flower bed in metres?



8. List down four properties of a rectangle

i.

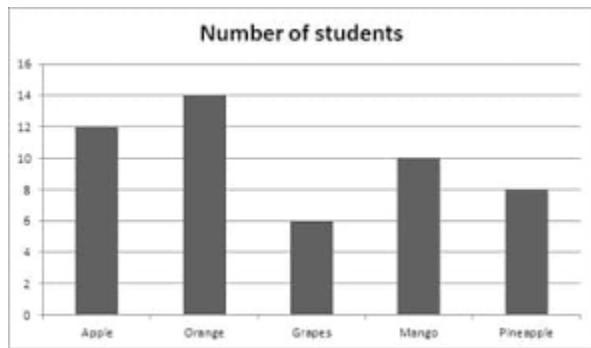
ii.

iii.

iv.

9. Convert 30°C to Kelvin.

10. The bar graph below shows the favorite fruits of students in a class.



- a) Which fruit is the most popular?
- b) How many more students prefer oranges than pineapple?
- c) What is the total number of students surveyed?