

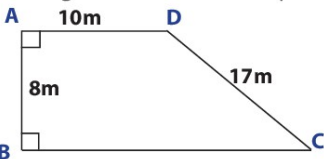
SECTION B

23. In a class, $\frac{3}{8}$ of the pupils are boys, $\frac{5}{9}$ of the boys and $\frac{2}{5}$ of the girls were absent. If 550 pupils were absent, how many pupils were present?

24. (a) The box exterior angle of a regular polygon is 100° less than the interior angle. Find the size of the exterior angle of a polygon

b. Calculate the interior angle sum of the polygon

25. The figure below is of trapezium ABCD



a. Find the length of BC

b. Calculate the area of the figure above

26. At a boutique, a bag costs twice as much as a dress and a belt costs three fifths of the cost of a dress. Aha bought one bag, 3 dresses and 2 belts. Find the cost of a belt if she paid 310,000 for all the items.

27. Study the foreign exchange rates below and use them to answer the questions that follow

Currency	Buying in Ugsh	Selling in Ugsh
1 Kenya shilling(Ksh)	38	43
1 US dollar (\$)	3600	3700
1 British pound £	4800	4900

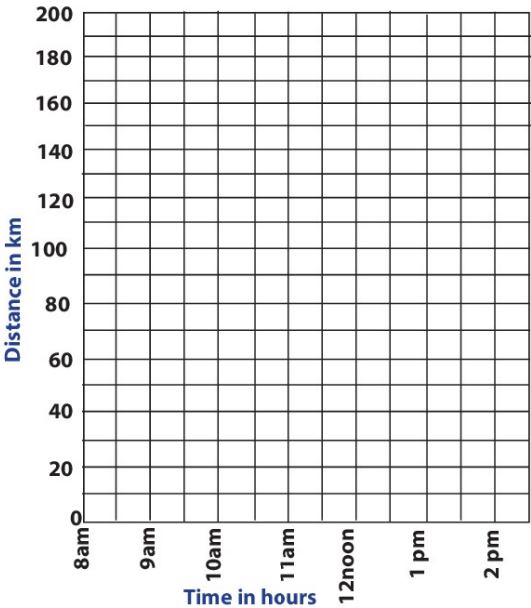
a) A trader had Ksh 15,000 which she exchanged

for Ugs. How much did she get?

(b) a tourist used united states dollars (\$) 1470 to buy British pounds (£) find the pounds he bought.

28. A motorist left Kampala at 8:30am and drove for 45 minutes to Mpigi which lies at a distance of 60km away. He left Mpigi at 9:30am for Masaka where he arrived at 10:15am. He stayed for 15 minutes and continued to Kinoni where he arrived at 11:00am.

a) Show the motorist's journey on the graph below:



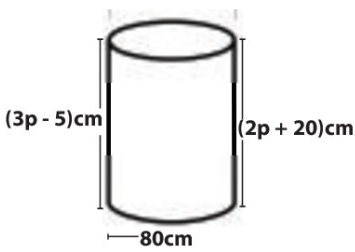
b) What was the motorist's average speed for the whole journey?

29. A tank has three taps A, B and C. Tap A takes 4 hours to fill the tank with water, tap B takes 6 hours to fill the tank with water while tap C takes 3 hours to fill the same tank with water. If the tank is $\frac{1}{6}$ full of water

(a) Find the time the three taps will take to fill the tank.

(b) What is the capacity of the tank if it had 800 litres of water before it was filled?

30. The figure below is of a cylindrical tank



a) Find the height of the tank.

b) What is the capacity of the tank? (use $\pi = \frac{22}{7}$)

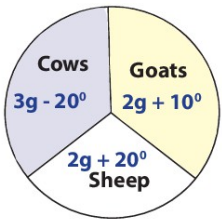
31. A helicopter flew from town A to town B 360 km away on a bearing of 240° . It then flew to town C 429 km away on a bearing of 300°

a) Draw a sketch to show the helicopter's flight.

b) Using a scale of 1 cm to represent 60 km, draw an accurate diagram to show the helicopter's flight.

c) What is the bearing of town A from C?

32. The pie chart below shows the distribution of animals on Akiiki's farm.



a) Find the value of g.

b) If there are 2600 cows how many animals are on that farm?