

**Choose correct answer(s) from the given choices**

(1) A ribbon of length  $\frac{8}{12}$  m is cut into 3 equal parts. How long is each piece of the ribbon?

a.  $\frac{9}{2}$  m

b.  $\frac{2}{9}$  m

c.  $\frac{24}{12}$  m

d.  $\frac{12}{24}$  m

(2) First number is 20 more than the second number. If the sum of both the numbers is 64, then find the first number.

a. 43

b. 42

c. 39

d. 41

(3) Which of the following is a possible number of diagonals of a convex polygon?

a. 21

b. 60

c. 62

d. 20

**Fill in the blanks**

(4) A motorboat covers a certain distance downstream in a river in eight hours. It covers the same distance upstream in eight and a half. The speed of the water is 2 km/hr. The speed of the boat in still water is \_\_\_\_\_.

(5) A closed planar shape with six sides is called a \_\_\_\_\_.

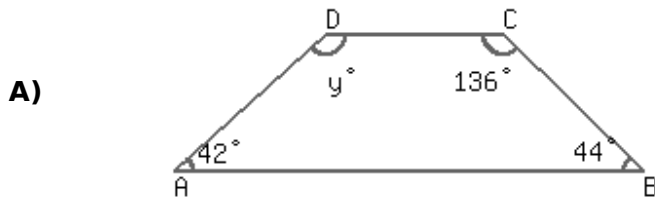
**Answer the questions**

(6) In a school 64% students are boys. If there are 196 more boys than girls. Find the total number of students in the school.

- (7) The following table shows the amount of pulses purchased (in tons) by the government from 1986 to 1992. Represent the data given in the table through a Bar Graph.

Year	Amount of pulses purchased (in tons)
1986	40
1987	60
1988	50
1989	80
1990	80
1991	90
1992	50

- (8) The total population of a village is a perfect square. The number of men in the village is 22948, and the number of women in the village is 27367. If we know that the number of children in the village is also a perfect square and is more than 10200, then what is the smallest possible number of children in the village?
- (9) Anthony decides to pave an area measuring 80.1 m by 83.44 m in his garden with terracotta tiles. He decides to buy tiles measuring 89 cm by 149 cm at the cost of \$ 44.13 per tile. Find the total cost that he will incur in paving his garden.
- (10) Look at the figures given below:



Find the value of angle  $y^\circ$ .



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