

Syllabus for CMO is available at <https://www.crestolympiads.com/cmo-syllabus>

Pattern And Marking Scheme

Class	Topic/Section	No. of Questions	Marks per Questions	Total Marks
1 st to 4 th	Practical Mathematics	25	1	25
	Achiever's Section	10	2	20
	Grand Total	35	-	45
5 th to 10 th	Practical Mathematics	40	1	40
	Achiever's Section	10	2	20
	Grand Total	50	-	60

1. A bucket contains $20\frac{1}{4}$ litre of water. A small jug has a capacity of $\frac{3}{4}$ litre. How many times the jug has to be filled with water from the bucket to get it emptied?

- (a) 15 (b) 17
(c) 27 (d) 31

2. Each side of a polygon is 2.9 m in length and its perimeter is 17.4 m. How many sides does the polygon have?

- (a) 6 (b) 9
(c) 11 (d) 13

3. In a caravan, in addition to 50 hens there are 45 goats and 8 camels with some keepers. If the total number of feet be 224 more than the number of heads, then find the number of keepers.

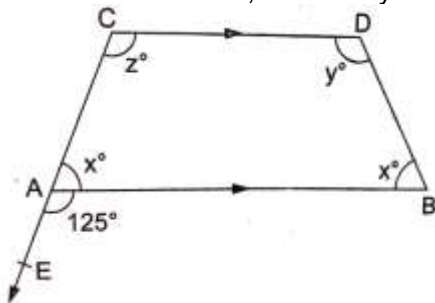
- (a) 19 (b) 17
(c) 16 (d) 15
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4. A businessman sells shirts at a profit of $12\frac{1}{2}\%$ and invests the proceeds to buy pants which he sells at a profit of 20%. If he makes a net profit of Rs. 700, then find the cost of the shirts.
- (a) Rs. 2300 (b) Rs. 2000
(c) Rs. 2500 (d) Rs. 2400

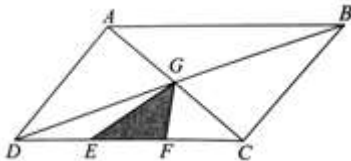
5. The simple interest on a certain sum for 3 years at 8% per annum is Rs. 96 more than the simple interest on the same sum for 2 years at 9% per annum. Find the sum.
- (a) Rs. 4800 (b) Rs. 3200
(c) Rs. 2400 (d) Rs. 1600

6. In the given figure, $AB \parallel CD$ and CA has been produced to E so that $\angle BAE = 125^\circ$. If $\angle BAC = x^\circ = \angle ABD$, $\angle BDC = y^\circ$ and $\angle ACD = z^\circ$, then find the value of y .



- (a) 50° (b) 85°
(c) 125° (d) 175°

7. In the following figure, ABCD is a parallelogram. The area of triangle EFG is equal to 6 cm^2 and $DE = EF = \frac{1}{3}$ of CD. Find the area of parallelogram ABCD.



- (a) 72 cm^2 (b) 56 cm^2
(c) 62 cm^2 (d) 75 cm^2

