
 I N T E R M E D I A T E C E R T I F I C A T E E X A M I N A T I O N , 1 9 6 5

E L E M E N T A R Y M A T H E M A T I C S (A r i t h m e t i c)

F O R G I R L S O N L Y

 W E D N E S D A Y , 1 6 t h J U N E - M o r n i n g , 1 0 t o 1 2

All questions to be answered.

All questions carry equal marks.

1. Simplify (a) $\frac{(4\frac{1}{11} + 2\frac{1}{2}) \times 4\frac{2}{5}}{2}$
- (b) $\frac{2.65 \times 1.35}{2.5}$
2. Calculate the simple interest on £225 for 5 years at $2\frac{2}{3}\%$ per annum.
What rate of interest would yield £35 simple interest on £500 for $3\frac{1}{2}$ years ?
3. Find the cost of the following items and also the total cost:
 (i) 4 dozen eggs at 4s. 10d. per dozen,
 (ii) 5 lbs. of butter at 4s. 8d. per lb.,
 (iii) $3\frac{1}{4}$ lbs. of bacon at 3s. 10d. per lb.,
 (iv) 2 dozen oranges at 6d. each,
 (v) 3 lbs. of flour at $11\frac{1}{2}$ d. per lb.
 What would the total amount be if the bill were increased by $2\frac{1}{2}\%$?
4. A carpet 15ft. 9in. by 12ft. is placed on the floor of a room 18ft. by 15ft.
What percentage of the floor remains uncovered ?
5. A thin sheet of copper forms a cylindrical pipe 20 ins. long and 3 ins. in diameter. Calculate the area of the copper sheet to the nearest square inch.
 (Take $\pi = \frac{22}{7}$)
6. A man travels by train 5 days a week and his ticket costs him 2s. 3d. per day. If he does this for all but three of the 52 weeks in a year, find how much he would save by buying a yearly ticket for £18 10s. 0d.
7. A wheel makes 350 revolutions while rolling one mile. What is the circumference of the wheel to the nearest inch ?
8. A certain article costs a manufacturer 4s. He makes a profit of 25% when selling it to a distributor, who in turn sells it to a shopkeeper at a profit of 20%. The shopkeeper sells the article at a profit of 1s. 6d.
 Calculate the shopkeeper's selling price and his percentage profit.