

FOUNDATION PAPER 2

Q1/

$$180^\circ - (32 + 32)$$

$$= 180 - 64$$



$$= 116^\circ$$

$$\text{SHADED ANGLE} = 116^\circ$$

Q2

COLOUR	STYLE	ENGINE TYPE
BLACK	HATCHBACK	DIESEL
BLACK	HATCHBACK	PETROL
BLACK	SALOON	DIESEL
BLACK	SALOON	PETROL
RED	HATCHBACK	DIESEL
RED	HATCHBACK	PETROL
RED	SALOON	DIESEL
RED	SALOON	PETROL

Q6

N ^o of Tables (T)	1	2	3	4	5	6		13
N ^o of Chairs (C)	4	6	8	10	12	14		28

(b) RULE: N^o of CHAIRS (C) = 2 × N^o of TABLES (T) + 2

$$C = 2T + 2$$

$$\begin{aligned}\underline{Q7} \quad \text{GROSS PAY} &= \text{basic pay} + \text{Overtime} + \text{Bonus} \\ &= \pounds 180 + \pounds 28 + \pounds 20 \\ &= \pounds 228\end{aligned}$$

$$\begin{aligned}\text{TOTAL DEDUCTIONS} &= \text{National Insurance} + \text{Income Tax} + \text{Union dues} \\ &= \pounds 14.50 + \pounds 36 + \pounds 2.00 \\ &= \pounds 52.50\end{aligned}$$

$$\begin{aligned}\text{NET PAY} &= \text{GROSS PAY} - \text{TOTAL DEDUCTIONS} \\ &= \pounds 228 - \pounds 52.50 \\ &= \pounds 205.50\end{aligned}$$

Q8 (a) sells $\pounds 5000$ worth of double glazing
so bonus = 6% of sales

$$\begin{aligned}&6\% \text{ of } 5000 \\ &= \frac{6}{100} \times 5000 \\ &= \pounds 300\end{aligned}$$

$$\begin{aligned}(b) &6\% \text{ of } \pounds 16000 \\ &= \frac{6}{100} \times 16000 \\ &= \pounds 96\end{aligned}$$

Q9

(a) ANSWER = 74 kg.

(b) ANSWER = 25TH FEBRUARY

(c) TOTAL WEIGHT LOST = $74 - 69$
= 5 kg.

$$\begin{aligned} \text{MONEY RAISED} &= 5 \times 30 \\ &= \underline{\underline{\pounds 150}} \end{aligned}$$

Q10

ANSWER = 16

Q11

(a) ANSWER = $\pounds 4.30$

(b) special ticket = $\pounds 25$

$$\begin{aligned} 10 \text{ times at Aerobics} &= 10 \times \pounds 3.25 \\ &= \pounds 32.50 \end{aligned}$$

$$\begin{aligned} \text{so saving} &= \pounds 32.50 - \pounds 25 \\ &= \pounds 7.50 \end{aligned}$$

Q12

$$\begin{aligned} \text{(a) AREA} &= \text{length} \times \text{breadth} \\ &= 126 \times 50 \\ &= 6300 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} \text{(b) N}^\circ \text{ of strips} &= 126 \div 10.5 \\ &= 12 \text{ wooden strips.} \end{aligned}$$

Q13

$$\text{Expected Height} = 5 \times \text{Age} + 80$$

$$100 = 5A + 80$$

$$\begin{array}{ccc} (-80) & & (-80) \\ \hline 20 & = & 5A \end{array}$$

$$20 = 5A$$

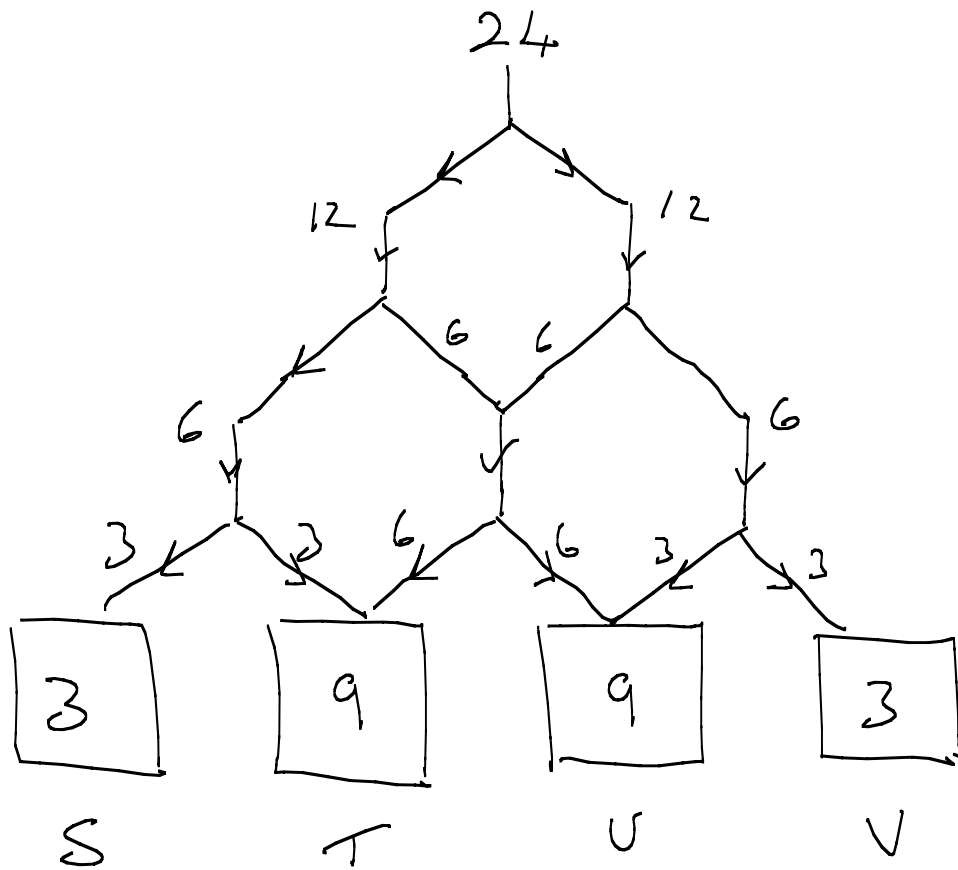
$$A = 4$$

$$\text{so Age} = 4$$

Q14

$$\text{ANSWER} = 72^\circ \text{F}$$

Q15



Q16

(a) Volume = length \times breadth \times height
 $= 40 \times 30 \times 35$
 $= 42000 \text{ cm}^3$

(b) 12 edges in total

Total length = $(4 \times 40) + (4 \times 30) + (4 \times 35)$
 $= 160 + 120 + 140$

Total length = 420 cm