

1
$$\begin{array}{r} 11 + 9 \\ 11 \\ + 9 \\ \hline 20 \end{array}$$

2

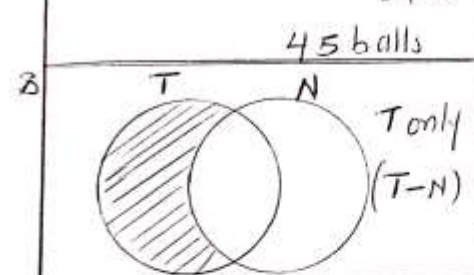
40	5
XL	V

 $45 = XLV$

3
$$\begin{aligned} x + 4 &= 7 \\ x + 4 - 4 &= 7 - 4 \\ x + 0 &= 3 \\ x &= 3 \end{aligned}$$

4
$$\begin{aligned} 2p + p - p \\ 3p - p \\ 2p \end{aligned}$$

5 6cm
6 $1\text{kg} = 1000\text{g}$
 $5\text{kg} = 5 \times 1000\text{g} = 5000\text{g}$
7 \odot represents 15 balls
3 balls represents (15×3) balls



9

3	6	9
2	2	3
3	1	3

 $LCM = 2 \times 3 \times 3$
 $LCM = 18$

10 Range = $H - L$
 $9 - 4$
 5

11 $LCM = 4$
$$\begin{array}{r} \frac{3}{4} + \frac{1}{4} \\ \hline \frac{3+1}{4} \end{array} \quad \left| \quad \begin{array}{r} \frac{4}{4} \\ \hline 1 \end{array} \right.$$

12 $1, 2, 4, 8, 16, 32, 64$
 $\begin{array}{c} \diagup \quad \diagdown \quad \diagup \quad \diagdown \quad \diagup \quad \diagdown \quad \diagup \\ \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \quad \times 2 \end{array}$

13 probability = $\frac{n(E)}{n(S)}$
number of elements = $12 - 4 = 8$
number of sample space = 12
prob = $\frac{8}{12}$

14
$$\begin{array}{r} 6273 \\ 1 \text{ RRV} \\ \hline 6200 + 100 \\ 6300 \end{array} \quad \begin{array}{l} 73 \text{ is} \\ \text{rounded up} \\ \text{to } 100 \end{array}$$

 $6273 \approx 6300$

15
$$\begin{array}{r} 15 \text{ } \pi \text{ } 11 \text{ } 50 \\ 4621 \end{array}$$

 $(4 \times 1000) + (6 \times 100) + (2 \times 10) + (1 \times 1)$

16 $HHH HHH HHH III = 18$
 $5 + 5 + 5 + 3 = 18$

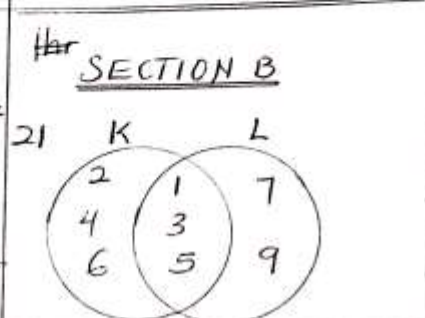
17 $f_9 = 9 \div 1 = 9$
 $9 \div 3 = 3$
 $F_9 = \{1, 3, 9\}$

18 Let the number be L
 $L + 3 = 9$
 $L + 3 - 3 = 9 - 3$
 $L + 0 = 6$
 $L = 6$

19

Weeks	Days
3	4
+ 4	6
8	3

$10 \div 7 = 1 \text{ rem } 3$
20. Duration = $ET - ST$
$$\begin{array}{r} 9:30 \\ - 8:30 \\ \hline 1\text{hr}, 00 \end{array}$$



b, $n(A \cap B)$
 $A \cap B = \{1, 3, 5\}$
 $n(A \cap B) = 3$
 $K \cup L = \{1, 2, 3, 4, 5, 6, 7, 9\}$

22 Smallest = 235
Biggest = 532

c)
$$\begin{array}{r} 532 \\ | \quad | \\ 2 \times 1 = 2 \\ 5 \times 100 = 500 \\ 500 + 2 = 502 \end{array}$$

23
$$\begin{array}{r} 506 \\ \times 2 \\ \hline 1012 \end{array}$$

$$\begin{array}{r} 7432 \\ + 563 \\ \hline 7995 \end{array}$$

c $\begin{array}{r} 8 \\ 5 \overline{)40} \\ \underline{5 \times 8 = 40} \end{array}$ Each got 8 oranges

24 $x + y + T$
 $6 + 4 + 5 = 15$

b $\begin{array}{r} yT - x \\ 4 \times 5 - 6 \\ \hline 20 - 6 \end{array} = 14$

c $\begin{array}{r} xy \\ 5 \overline{)24} \\ \underline{6 \times 4} \\ 5 \end{array}$

25

Hours	Minutes
5	30
-2	20
3	10



26 $M_4 = \{4, 8, 12, 16, 20\}$

Second = 2

Fourth = 6

Sum = $2 + 6 = 8$

27 $\frac{2}{7} + \frac{1}{7} + \frac{3}{7}$
 $\frac{2+1+3}{7}$
 $\frac{6}{7}$

b. LCD = 21

$$\left(\frac{5}{7} \times \frac{3}{1}\right) - \left(\frac{2}{3} \times \frac{1}{1}\right)$$

$$\frac{15}{21} - \frac{14}{21} = \frac{1}{21}$$

c) $\frac{1}{2}$ of 8 books
 $\left(\frac{1}{2} \times \frac{8}{1}\right)$ books
4 books

28 $a + 35^\circ = 90^\circ$
 $p + 35^\circ - 35^\circ = 90^\circ - 35^\circ$
 $p + 0 = 55^\circ$
 $p = 55^\circ$

b) $120^\circ + m = 180^\circ$
 $120^\circ - 120^\circ + m = 180^\circ - 120^\circ$
 $0 + m = 60^\circ$
 $m = 60^\circ$

$x + 30^\circ = 90^\circ$
 $x + 30^\circ - 30^\circ = 90^\circ - 30^\circ$
 $x + 0 = 60^\circ$
 $x = 60^\circ$

29	Sugar	Soap	Salt
1 kg = sh 2800	1 bar = sh 3000		
2 kg = 2 x sh 2800	3 x sh 3000		$\frac{1}{2}$ kg = sh 600
sh 5800	sh 9000		

sh 5800
sh 9000
sh + 600
sh 15400

b) sh 20,000 - 15400
sh 4600

30. $\frac{5}{5} - \frac{2}{5} = \frac{5-2}{5}$

Girls = $\frac{3}{5}$

b) $\frac{2}{5} \times 40$ 16 boys
 $\frac{2}{5} \times \frac{8}{1} \times 40$
 2×8

Girls = $40 - 16 = 24$
 $24 - 16 = 8$ more girls than boys

31 (i) 14 days = 2 weeks

(ii) $0 > -1$

(iii) $2^\circ = 1 \times 1$

(iv) $365 = 1$ year

(v) LX < LXV

32.

Number of Pens	Tally
6	### I
9	### IIII
7	II
5	###
3	III

END