









Geometry—Points, Lines and Line Segments

Exercise-1

.X	Point X
	Line MN
	Line segment ST
	Ray AB
	Line DE
	Ray LM
	Line segment AB

Exercise-2

1. (a) horizontal (b) slant (c) vertical
(d) curved (e) slant
2. (a) $AB = 5$ cm, $BC = 4$ cm, $CD = 3$ cm, $DA = 4$ cm
(b) $XY = 3$ cm, $YZ = 6$ cm, $ZX = 5$ cm
3. (a) A ————— B
8 cm

(b) X ————— Y
10 cm

(c) R ————— S
7 cm

(d) P ————— Q
2 cm

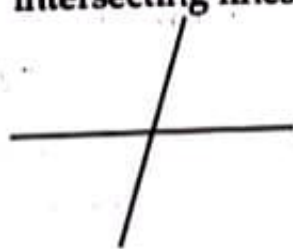
(e) M ————— N
9 cm

(f) C ————— D
5 cm

\overline{XY} is the longest.

\overline{PQ} is the shortest.

4. (a) parallel lines (b) intersecting lines



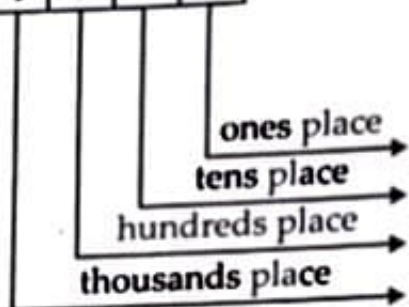
Maths Lab Activity

1. Number of vertical lines = 7
2. Number of horizontal lines = 13
3. Number of slanting lines = 11
4. Number of curved lines = 3

MODEL TEST PAPER (Only for Smiles)

1. (a) 311 (b) 1787 (c) 100 (d) 1537
 (e) 7008 (f) 7531 (g) 1999 (h) even
 (i) predecessor (j) XXIV
2. 4507 = 4 thousands 5 hundreds 7 ones.

Th	H	T	O
4	5	0	7



Face value	Place value
7	$7 \times 1 = 7$
0	$0 \times 10 = 0$
5	$5 \times 100 = 500$
4	$4 \times 1000 = 4000$

3. (a) $18 = 10 + 8 = X + VIII = XVIII$
 (b) $29 = 20 + 9 = XX + IX = XXIX$
 (c) $31 = 30 + 1 = XXX + I = XXXI$
 (d) $37 = 30 + 7 = XXX + VII = XXXVII$
4. (a) $7361 + 1238 = 8599$ (b) $4321 + 4567 = 8888$ (c) $3898 + 2976 = 6874$

$$\begin{array}{r} 7361 \\ + 1238 \\ \hline 8599 \end{array}$$

$$\begin{array}{r} 4321 \\ + 4567 \\ \hline 8888 \end{array}$$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 3898 \\ + 2976 \\ \hline 6874 \end{array}$$

5. (a) $9210 - 8999 = 211$ (b) $5886 - 2885 = 3001$ (c) $8080 - 7291 = 789$

$$\begin{array}{r} \textcircled{8} \textcircled{11} \textcircled{10} \textcircled{10} \\ 9210 \\ - 8999 \\ \hline 211 \end{array}$$

$$\begin{array}{r} 5886 \\ - 2885 \\ \hline 3001 \end{array}$$

$$\begin{array}{r} \textcircled{7} \textcircled{9} \textcircled{17} \textcircled{10} \\ 8080 \\ - 7291 \\ \hline 789 \end{array}$$

6. (a)

$$\begin{array}{r} \textcircled{3} \\ 36 \\ \times 5 \\ \hline 180 \end{array}$$

- (b)

$$\begin{array}{r} \textcircled{5} \\ 27 \\ \times 8 \\ \hline 216 \end{array}$$

- (c)

$$\begin{array}{r} \textcircled{3} \\ 44 \\ \times 9 \\ \hline 396 \end{array}$$

- (d)

$$\begin{array}{r} \textcircled{3} \\ 56 \\ \times 6 \\ \hline 336 \end{array}$$

7. Total number of people went to see the matches

$$= 1524 + 987$$

$$= 2511$$

$$\begin{array}{r} \textcircled{1}\textcircled{1}\textcircled{1} \\ 1524 \\ + 987 \\ \hline 2511 \end{array}$$

So, 2511 people went to see the matches.

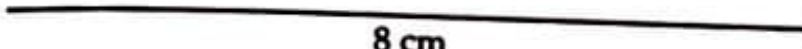
8. Number of girls in the school = Total number of students -
Number of boys

$$= 3500 - 1945$$

$$= 1555$$

$$\begin{array}{r} \textcircled{2}\textcircled{14}\textcircled{9}\textcircled{10} \\ \cancel{3}\cancel{5}\cancel{0}\cancel{0} \\ - 1945 \\ \hline 1555 \end{array}$$

So, there are 1555 girls in the school.

9. A  B
8 cm

This is the required line segment of length 8 cm.

10. (a)

$$\begin{array}{r} \text{₹} \quad \text{p} \\ \textcircled{1} \\ 70 \quad 50 \\ + 25 \quad 75 \\ \hline 96 \quad 25 \end{array}$$

(b)

$$\begin{array}{r} \text{₹} \quad \text{p} \\ \textcircled{1}\textcircled{0}\textcircled{1} \\ 115 \quad 50 \\ + 85 \quad 50 \\ \hline 201 \quad 00 \end{array}$$

11. (a)

$$\begin{array}{r} \text{₹} \quad \text{p} \\ \textcircled{0}\textcircled{12}\textcircled{17} \\ \cancel{1}\cancel{2}\cancel{7} \quad 00 \\ - 68 \quad 00 \\ \hline 69 \quad 00 \end{array}$$

(b)

$$\begin{array}{r} \text{₹} \quad \text{p} \\ \textcircled{1}\textcircled{1} \quad \textcircled{14}\textcircled{0} \\ 128 \quad 88 \\ - 107 \quad 75 \\ \hline 17 \quad 75 \end{array}$$

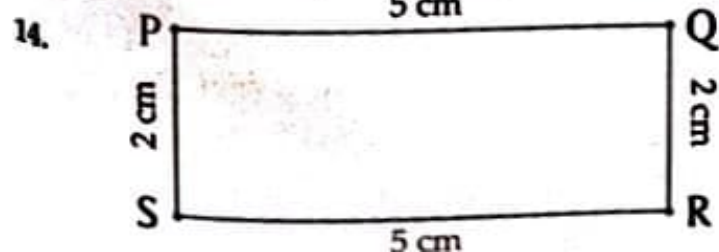
12. (a) 2:30:19 (b) 7:15:43 (c) 11:55:50

13. (a) 11 hours 50 minutes = 11×60 minutes + 50 minutes
= 660 minutes + 50 minutes = 710 minutes

- (b) 7 minutes 59 seconds = 7×60 seconds + 59 seconds
= 420 seconds + 59 seconds = 479 seconds

- (c) 7 days 20 hours = 7×24 hours + 20 hours = 168 hours + 20 hours
= 188 hours

- (d) 4 weeks 5 days = 4×7 days + 5 days = 28 days + 5 days = 33 days



We get a rectangle.