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Class- 06. Sub-.Maths

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4. (a) Complete the table and by inspection of the table find the solution to the equation $m + 10 = 16$.

m	1	2	3	4	5	6	7	8	9	10	—	—	—
m + 10	—	—	—	—	—	—	—	—	—	—	—	—	—

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(b) Complete the table and by inspection of the table, find the solution to the equation $5t = 35$

t	3	4	5	6	7	8	9	10	11	—	—	—	—	—
5t	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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(c) Complete the table and find the solution of the equation $z / 3 = 4$ using the table.

z	8	9	10	11	12	13	14	15	16	—	—	—	—
z / 3	$2\frac{2}{3}$	3	$3\frac{1}{3}$	—	—	—	—	—	—	—	—	—	—

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(d) Complete the table and find the solution to the equation $m - 7 = 3$.

m	5	6	7	8	9	10	11	12	13	—	—
m - 7	—	—	—	—	—	—	—	—	—	—	—

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Solutions:

(a) For $m + 10$, the table is represented as below

m	$m + 10$
1	$1 + 10 = 11$
2	$2 + 10 = 12$
3	$3 + 10 = 13$
4	$4 + 10 = 14$
5	$5 + 10 = 15$
6	$6 + 10 = 16$
7	$7 + 10 = 17$
8	$8 + 10 = 18$

9	$9 + 10 = 19$
10	$10 = 10 = 20$

Now, by inspection we may conclude that $m = 6$ is the solution of the above equation since, for $m = 6$,

$$m + 10 = 6 + 10 = 16$$

(b) For $5t$, the table is represented as below

t	$5t$
3	$5 \times 3 = 15$
4	$5 \times 4 = 20$
5	$5 \times 5 = 25$
6	$5 \times 6 = 30$
7	$5 \times 7 = 35$
8	$5 \times 8 = 40$
9	$5 \times 9 = 45$
10	$5 \times 10 = 50$

11	$5 \times 11 = 55$
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Now, by inspection we may conclude that $t = 7$ is the solution of the above equation since, for $t = 7$,

$$5t = 5 \times 7 = 35$$

(c) For $z / 3$, the table is represented as below

z	$z / 3$
8	$8 / 3 = 2\frac{2}{3}$
9	$9 / 3 = 3$
10	$10 / 3 = 3\frac{1}{3}$
11	$11 / 3 = 3\frac{2}{3}$
12	$12 / 3 = 4$
13	$13 / 3 = 4\frac{1}{3}$
14	$14 / 3 = 4\frac{2}{3}$
15	$15 / 3 = 5$

16	$16 / 3 = 5\frac{1}{3}$
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Now, by inspection we may conclude that $z = 12$ is the solution of the above equation since for $z = 12$,

$$z / 3 = 12 / 3 = 4$$

(d) For $m - 7$, the table is represented as below

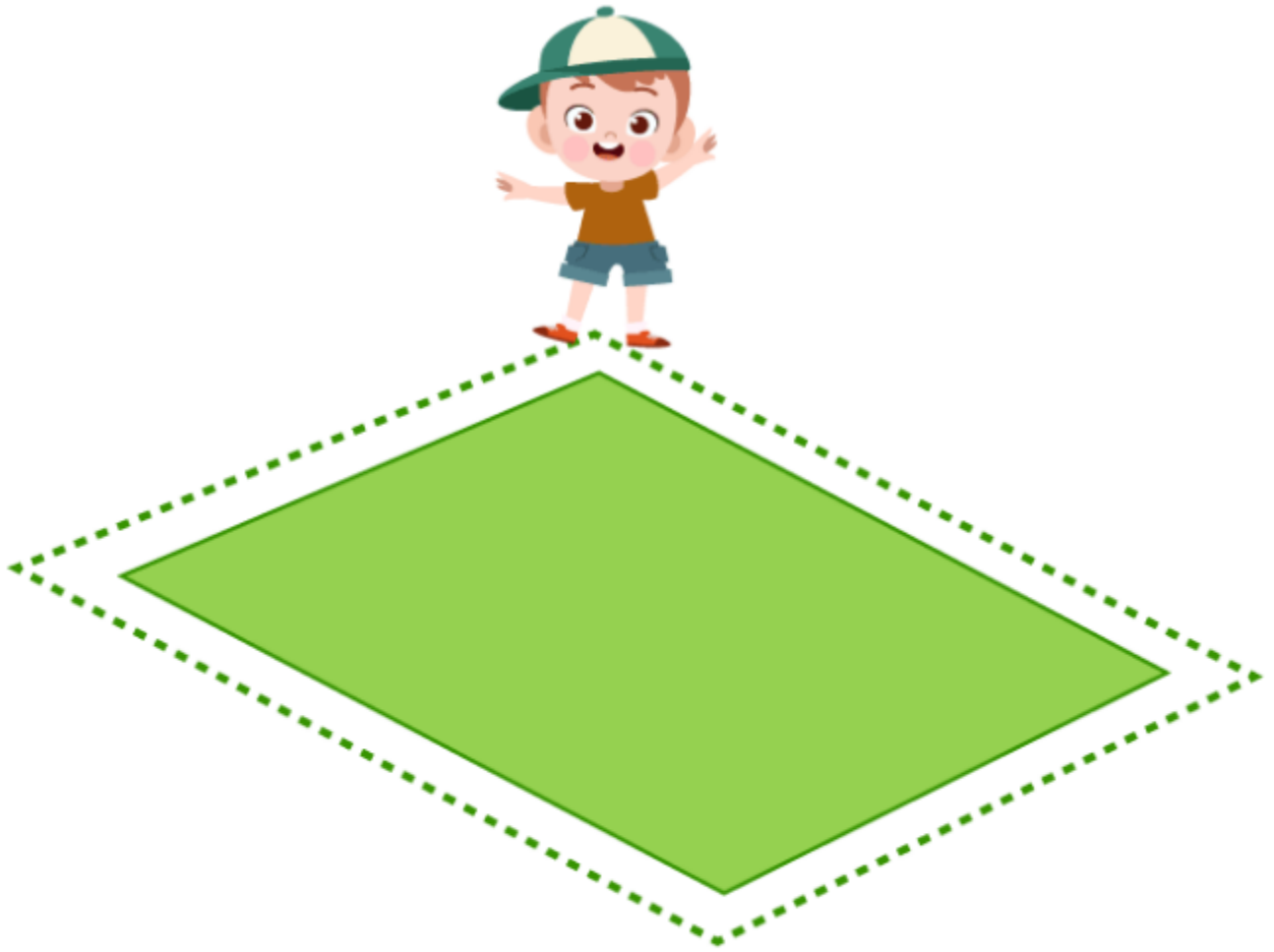
m	$m - 7$
5	$5 - 7 = -2$
6	$6 - 7 = -1$
7	$7 - 7 = 0$
8	$8 - 7 = 1$
9	$9 - 7 = 2$
10	$10 - 7 = 3$
11	$11 - 7 = 4$
12	$12 - 7 = 5$
13	$13 - 7 = 6$

Now, by inspection we may conclude that $m = 10$ is the solution of the above equation since, for $m = 10$,

$$m - 7 = 10 - 7 = 3$$

5. Solve the following riddles, you may yourself construct such riddles.

Who am I?



$$? - 6 = 11$$

(i) Go round a square
Counting every corner
Thrice and no more!
Add the count to me

To get exactly thirty four!

(ii) For each day of the week

Make an upcount from me

If you make no mistake

You will get twenty three!

(iii) I am a special number

Take away from me a six!

A whole cricket team

You will still be able to fix!

(iv) Tell me who I am

I shall give a pretty clue!

You will get me back

If you take me out of twenty two!

Solutions:

(i) There are 4 corners in a square.

Thrice the number of corners in the square = $3 \times 4 = 12$

When 12 is added to the number it becomes 34

So, the number will be the difference of 34 and 12

$$34 - 12 = 22$$

(ii) The result was 23 when the old number was up counted on Sunday

The result was 22 when the old number was up counted on Saturday

The result was 21 when the old number was up counted on Friday

The result was 20 when the old number was up counted on Thursday

The result was 19 when the old number was up counted on Wednesday

The result was 18 when the old number was up counted on Tuesday

The result was 17 when the old number was up counted on Monday

Hence, the number taken at starting was $17 - 1 = 16$

(iii) There are 11 players in a cricket team

If 6 is subtracted from a required number it will be 11

$$11 + 6 = 17$$

Hence, the number is 17

(iv) The required number is such that if it is subtracted from 22 the result is the number itself.

The number is 11 because if it is subtracted from 22 the result will be 11 only.