

6th Maths Unit 2 Questions in English

2] Introduction To Algebra

1. 5, 8, 11, 14, _____, _____, _____

Solution:

$$5 + 3 = 8$$

$$8 + 3 = 11$$

$$11 + 3 = 14$$

$$14 + 3 = \underline{17}$$

$$17 + 3 = \underline{20}$$

$$20 + 3 = \underline{23}$$

Answer: 5, 8, 11, 14, 17, 20, 23

2. If $15873 \times 7 = 111111$ and $15873 \times 14 = 222222$ then What is $15873 \times 21 = ?$ and $15873 \times 28 = ?$

Solution

$$\begin{array}{r}
 15873 \quad \times \\
 21 \\
 \hline
 15873 \\
 31746 \\
 \hline
 333333 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 15873 \quad \times \\
 28 \\
 \hline
 126984 \\
 31746 \\
 \hline
 444444 \\
 \hline
 \end{array}$$

Answer: 333333, 444444

3. In Algebra, A symbol that represents a number is called _____. A number quantity does not vary always. So we call it as _____.

Answer: Variable, Constant.

4. Mathi is 3 years elder than his sister Nila. If we know Nila's age can we find Mathi's?

Solution

Nila's age 'n'; Mathi's age $n + 3$

If $n = 4$, Mathi's age $4 + 3 = 7$

If $n = 8$, Mathi's age $8 + 3 = 11$

If $n = 12$, Mathi's age $4 + 3 = 15$

5. Write the Algebraic statement for below.

i) Seven times of 'n' minus 5

ii) The sum of 'x' and 4

iii) 3 times 'y' is divided by 8

Answer:

i) $7n - 5$

ii) $x + 4$

iii) $3y/8$

6. Fill in the blanks.

i) _____ $+3 = 8$

\Rightarrow _____ $= 8 - 3$

\Rightarrow _____ $= 5$

ii) $2 +$ _____ $= 9$

\Rightarrow _____ $= 9 - 2$

\Rightarrow _____ $= 7$

iii) $11 - 5 =$ _____

$\Rightarrow 6 =$ _____

\Rightarrow _____ $= 6$

Answer: 5, 7, 6

7. Fill in the blanks.

$37 + 43 = 43 +$ _____

Solution

$37 + 43 = 43 +$ _____

$\Rightarrow 80 = 43 +$ _____

$\Rightarrow 80 - 43 =$ _____

$\Rightarrow 37 =$ _____

Answer: 37

8. Suppose that there are some eggs in a tray. If 6 eggs are taken out from it and still 10 eggs are remaining, how many eggs are there in the tray?

Solution

Total eggs in a tray = x

If 6 eggs are taken out $\Rightarrow x - 6 = 10$

$$\Rightarrow x = 10 + 6$$

$$\Rightarrow x = 16$$

Total 16 eggs are there in the tray.

9. If 'P- 5' gives 12 then 'P' is _____

Solution

$$P - 5 = 12$$

$$\Rightarrow P = 12 + 5$$

$$\Rightarrow P = 17$$

10. Variable means that it

a) can take only a few values

b) has a fixed value

c) **can take different values**

d) can take

11. Gopal is 8 years younger to Karnan. If the sum of their ages is 30, how old is Karnan?

Solution

Gopal Age = x ; Karnan's Age = $x + 8$

Sum of their age is = $(x) + (x+8) = 30$

$$\Rightarrow 2x + 8 = 30$$

$$\Rightarrow 2x = 30 - 8 = 22$$

$$\Rightarrow x = 22/2 = 11$$

Gopal's age is 11 and Karnan age is $11 + 8 = 19$

12. **Variables** are quantities that can take any value and they are denoted by small Alphabets a, b, c,, x, y, z.

Contants are quantities whose value do not cange always (ie.) a fixed value.