Answers

(1) **A)** 3

```
  Dividend ↴
Divisor→ 6 ) 1 8 ( 3 ←Quotient
           1 8
Remainder←  0
```

B) 8

```
  Dividend ↴
Divisor→ 7 ) 5 6 ( 8 ←Quotient
           5 6
Remainder←  0
```

C) 22

```
  Dividend ↴
Divisor→ 4 ) 8 8 ( 22 ←Quotient
           8
             8
             8
Remainder←   0
```

D) 7

```
  Dividend ↴
Divisor→ 8 ) 5 6 ( 7 ←Quotient
           5 6
Remainder←  0
```

E) 16

Dividend ↴

Divisor→ 5 **) 8 0 (** 16 **←Quotient**

5

3 0

3 0

Remainder← 0

F) 6

Dividend ↴

Divisor→ 4 **) 2 4 (** 6 **←Quotient**

2 4

Remainder← 0

(2) 10

Step 1

We have been asked to find the number of hours that equals 600 minutes.

Step 2

Minutes in one hour = 60

Step 3

Total number of minutes = 600

Step 4

$$\text{Number of hours} = \frac{\text{Total number of minutes}}{\text{Minutes in one hour}}$$

$$= \frac{600}{60}$$

$$= 10$$

Step 5

Therefore, **10** hours are there in 600 minutes.

(3) €2

Step 1

The cost of 6 colour pencils is €12.

Step 2

If we divide €12 into 6 equals parts, each part will represent the cost of one colour pencil.

Step 3

Therefore, the cost of each colour pencil is
$12 \div 6 = 2$

Step 4

Thus, the cost of each colour pencil is **€2.**

(4) 8

Step 1

Quantity of guava juice contained in the jug = 640 ml
Quantity of juice one glass can hold = 80 ml

Step 2

To find out the number of glasses, we will have to divide the total quantity of juice by the quantity of juice one glass can hold.

Step 3

On calculating the above, we get:
$640 \div 80 = 8$
Hence, **8** glasses can be filled with the guava juice in the jug.

(5) €808

Step 1

As we know, there are 12 months in a year.

Step 2

Since, the school fees for 12 months = €9696

Therefore, the school fees for one month = $\frac{9696}{12}$ = €808

Step 3

Hence, yana's monthly school fees will be **€808.**

(6) 21

Step 1

Distance traveled by the car = 966 km

Step 2

Capacity of full tank of the car = 46 liters

Step 3

$$\text{Mileage of the car} = \frac{\text{Distance traveled by the car}}{\text{Capacity of the tank of the car}}$$

$$= \frac{966}{46}$$

$$= 21$$

Step 4

Therefore, the mileage of the car is **21 kmpl.**

(7) €4372

Step 1

Total money collected = €131160

Step 2

Total number of families = 30

Step 3

The money that each family will get = Total money collected ÷ Total number of families
= 131160 ÷ 30

Dividend ↴

Divisor→ 30 **) 1 3 1 1 6 0 (** 4372 **←Quotient**

1 2 0

1 1 1

9 0

2 1 6

2 1 0

6 0

6 0

Remainder← 0

Step 4

Hence, each family will get a compensation of **€4372**.

(8) €508

Step 1

Total money collected = €46228

Step 2

Total number of families = 91

Step 3

The money that each family will get as compensation = Total money collected ÷ Total number of families

= 46228 ÷ 91

Dividend ↴

Divisor→ 91 **) 4 6 2 2 8 (** 508 **←Quotient**

4 5 5

7 2 8

7 2 8

Remainder← 0

Step 4

Hence, each family will get **€508** as compensation.

(9) 7, remaining - 14

Step 1

Since, 175 candies are to be distributed among 23 students, we need to divide 175 by 23 to get the candies per student as well as the remaining candies.

Step 2

On calculating the above, we get:

$\frac{175}{23}$ = 7 R 14

Step 3

Therefore, each student will get 7 candies while 14 candies are left with Chris.

(10) **b.** Divide by 7

Step 1

Looking at the table carefully, we notice that all the numbers in the output column are smaller than those in the input column.

Step 2

Dividing the input 56 by the output 7 in the first row, we get the answer as 8. We can now verify that each input number when divided by 7 gives the corresponding output:

$\frac{56}{7} = 8,$

$\frac{35}{7} = 5,$

$\frac{42}{7} = 6,$

$\frac{28}{7} = 4,$

$\frac{63}{7} = 9.$

Step 3

So, we can say that each member of the input column should be ‘Divided by 7’ to get their respective outputs.

(11) **c.** smaller than

Step 1

Let us consider the division $\frac{50}{4}$. Here, the quotient is equal to 12 and the remainder is 2.

Step 2

The remainder is always smaller than the divisor.

Step 3

Therefore, **option c** is the correct answer.

(12) **a.** 4

8 can be written as 2 + 2 + 2 + 2. This means that there are **4** two's in 8.

(13) A) 3

Step 1

Here, the dividend is equal to 45 and divisor is equal to 15.

Step 2

We know that dividend = divisor × quotient

So, quotient = $\frac{\text{dividend}}{\text{divisor}}$

= $\frac{45}{15}$

= 3

Step 3

Therefore, the correct answer is **3.**

B) 9

Step 1

Here, the dividend is equal to 99 and divisor is equal to 11.

Step 2

We know that dividend = divisor × quotient

So, quotient = $\frac{\text{dividend}}{\text{divisor}}$

= $\frac{99}{11}$

= 9

Step 3

Therefore, the correct answer is **9.**

C) 2

Step 1

Here, the dividend is equal to 30 and divisor is equal to 15.

Step 2

We know that dividend = divisor × quotient

So, quotient = $\frac{\text{dividend}}{\text{divisor}}$

= $\frac{30}{15}$

= 2

Step 3

Therefore, the correct answer is **2.**

D) 4

Step 1

Here, the dividend is equal to 76 and divisor is equal to 19.

Step 2

We know that dividend = divisor × quotient

So, quotient = $\frac{\text{dividend}}{\text{divisor}}$

= $\frac{76}{19}$

= 4

Step 3

Therefore, the correct answer is **4.**

E) 10

Step 1

Here, the dividend is equal to 160 and divisor is equal to 16.

Step 2

We know that dividend = divisor × quotient

So, quotient = $\frac{\text{dividend}}{\text{divisor}}$

$= \frac{160}{16}$

$= 10$

Step 3

Therefore, the correct answer is **10.**

F) 2

Step 1

Here, the dividend is equal to 28 and divisor is equal to 14.

Step 2

We know that dividend = divisor × quotient

So, quotient = $\frac{\text{dividend}}{\text{divisor}}$

$= \frac{28}{14}$

$= 2$

Step 3

Therefore, the correct answer is **2.**

(14) A) 30550 | 8

Step 1

On dividing 763758 by 25 we get a quotient of 30550 and a remainder of 8.

Dividend ↴

Divisor→ 25 **) 7 6 3 7 5 8 (** 30550 **←Quotient**

7 5

1 3 7

1 2 5

1 2 5

1 2 5

8

0

Remainder← 8

Step 2

This means the answer to the above question is 30550 R 8.

B) 1999 | 19

Step 1

On dividing 51993 by 26 we get a quotient of 1999 and a remainder of 19.

Dividend ↴

Divisor→ 26 **) 5 1 9 9 3 (** 1999 **←Quotient**

2 6

2 5 9

2 3 4

2 5 9

2 3 4

2 5 3

2 3 4

Remainder← 19

Step 2

This means the answer to the above question is 1999 R 19.

C) 21002 | 29

Step 1

On dividing 861111 by 41 we get a quotient of 21002 and a remainder of 29.

Dividend ↴

Divisor→ 41 **) 8 6 1 1 1 1 (** 21002 **←Quotient**

8 2

4 1

4 1

1 1 1

8 2

Remainder← 29

Step 2

This means the answer to the above question is 21002 R 29.

D) 46811 | 3

Step 1

On dividing 514924 by 11 we get a quotient of 46811 and a remainder of 3.

Dividend ↴

Divisor→ 11 **) 5 1 4 9 2 4 (** 46811 **←Quotient**

4 4

7 4

6 6

8 9

8 8

1 2

1 1

1 4

1 1

Remainder← 3

Step 2

This means the answer to the above question is 46811 R 3.

(15) A) 40697 | 22

Step 1

Let us divide 936053 by 23 as shown below,

Dividend ↴

Divisor→ 23 **) 9 3 6 0 5 3 (** 40697 **←Quotient**

9 2

1 6 0

1 3 8

2 2 5

2 0 7

1 8 3

1 6 1

Remainder← 22

Step 2

On dividing 936053 by 23 we get 40697 as quotient and 22 as remainder.

B) 12704 | 25

Step 1

Let us divide 673337 by 53 as shown below,

Dividend ↴

Divisor→ 53 **) 6 7 3 3 3 7 (** 12704 **←Quotient**

5 3

1 4 3

1 0 6

3 7 3

3 7 1

2 3 7

2 1 2

Remainder← 25

Step 2

On dividing 673337 by 53 we get 12704 as quotient and 25 as remainder.

C) 13475 | 1

Step 1

Let us divide 633326 by 47 as shown below,

Dividend ↴

Divisor→ 47 **) 6 3 3 3 2 6 (** 13475 **←Quotient**

4 7

1 6 3

1 4 1

2 2 3

1 8 8

3 5 2

3 2 9

2 3 6

2 3 5

Remainder← 1

Step 2

On dividing 633326 by 47 we get 13475 as quotient and 1 as remainder.

D) 34897 | 12

Step 1

Let us divide 732849 by 21 as shown below,

```
                Dividend ↴
Divisor→ 21 ) 7 3 2 8 4 9 ( 34897 ←Quotient
              6 3
              ---
              1 0 2
                8 4
                ---
                1 8 8
                1 6 8
                -----
                  2 0 4
                  1 8 9
                  -----
                    1 5 9
                    1 4 7
                    -----
Remainder←          12
```

Step 2

On dividing 732849 by 21 we get 34897 as quotient and 12 as remainder.