

## Exercise 3F

Q4 Answer:

(c) 8

Here we have to tell what least number should be subtracted from 10004 to get a number exactly divisible by 12

So, we will first divide 10004 by 12.

Remainder = 8

So, 8 should be subtracted from 10004 to get the number exactly divisible by 12.

$$\begin{array}{r}
 833 \\
 12 \overline{\smash{\big)}\,9996} \\
 \underline{\phantom{0}\,96} \\
 39 \\
 \underline{\phantom{0}\,36} \\
 \underline{\phantom{0}\,36} \\
 \underline{\phantom{0}\,36} \\
 \underline{\phantom{0}\,36} \\
 \underline{\phantom{0}\,0} \\
 \end{array}$$

Hence, 9996 is exactly divisible by 12.

Q5

## Answer:

(a) 18

Here , we have to tell that what least number must be added to 10056 to get a number exactly divisible by 23

So, first we will divide 10056 by 23

Remainder = 5

Required number = 23 - 5 = 18

So, 18 must be added to 10056 to get a number exactly divisible by 23.

i.e., 10056 + 18 = 10074

Hence, 10074 is exactly divisible by 23.

## Q6

Answer:

(d) 462

(a) 11)450 44

\_\_10

Hence, 450 is not divisible by 11.

(b)

$$\begin{array}{r}
41 \\
11 \overline{\smash{\big)}\,451} \\
\underline{44} \\
11 \\
\underline{-11} \\
0
\end{array}$$

Hence, 451 is divisible by 11.

(c)

$$\begin{array}{r}
41 \\
11 \overline{\smash{\big)}\,460} \\
\underline{-44} \\
20 \\
\underline{-11} \\
9
\end{array}$$

Hence, 460 is not divisible by 11.

(d)

$$\begin{array}{r}
42 \\
11 \overline{\smash{\big)}\ 462} \\
\underline{44} \\
22 \\
\underline{-22} \\
0
\end{array}$$

Hence, 462 is divisible by 11.

Here, the numbers given in options (b) and (d) are divisible by 11. However, we want a whole number nearest to 457 which is divisible by 11.

So, 462 is whole number nearest to 457 and divisible by 11.

## Answer:

(c) 184

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*