



Exercise 3F

Q8

Answer :

(b) 521

Divisor = 46

Quotient = 11

Remainder = 15

Dividend = divisor \times quotient + remainder

$$= 46 \times 11 + 15$$

$$= 506 + 15$$

$$= 521$$

Q9

Answer :

(c) 12

Dividend = 199

Quotient = 16

Remainder = 7

According to the division algorithm, we have:

Dividend = divisor \times quotient + remainder

$$\Rightarrow 199 = \text{divisor} \times 16 + 7$$

$$\Rightarrow 199 - 7 = \text{divisor} \times 16$$

$$\Rightarrow \text{Divisor} = 192 \div 16$$

$$\begin{array}{r} 12 \\ 16 \overline{) 192} \\ \underline{-16} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

Q10

Answer :

(a) 11023

$$7589 - ? = 3434$$

$$\Rightarrow 7589 - x = 3434$$

$$\Rightarrow x = 7589 + 3434$$

$$\Rightarrow x = 11023$$

Q11

Answer :

(c) 58113

$$\begin{aligned} & 587 \times 99 \\ &= 587 \times (100 - 1) \\ &= 587 \times 100 - 587 \times 1 \quad \text{[Using distributive property of multiplication over subtraction]} \\ &= 58700 - 587 \\ &= 58113 \end{aligned}$$

***** END *****