

Let's Recall

A) Fill in the blanks.

1) $16 \times 8 = 128$ so, $128 \div 16 = \underline{8}$ and $128 \div 8 = \underline{16}$

2) $1200 \div 100 = \underline{12}$ 3) $9676 \div 9676 = \underline{1}$

4) $73286 \div 1 = \underline{73286}$ 5) $0 \div 8367 = \underline{0}$

6) In $3874 \div 10$, quotient = 387, remainder = 4

B) Recall your tables and solve.

1) $57 \div 19 = 3$ 2) $99 \div 11 = 9$ 3) $52 \div 13 = 4$ 4) $72 \div 6 = 12$ 5) $144 \div 18 = 8$

C) Solve.

1) 6470 laddoos are packed in 10 boxes. How many laddoos does each box contain ?

Sol- Laddoos in 10 boxes = 6470

Laddoos in 1 box = $6470 \div 10 = 647$ laddoos

Exercise – 5.1

Fill in the boxes with the correct answer.

1) The remainder is always smaller than the divisor.

2) $0 \div 924 = \underline{0}$ 3) $8419 \div 8419 = \underline{1}$ 4) $6748 \div \underline{1} = 6748$

5) $80 \div \underline{10} = 8$ 6) $\underline{36} \div 4 = 9$

Exercise – 5.2

Solve and write the quotient and remainder.

1) $843745 \div 5$

2) $214837 \div 6$

Ex - 5.2

(1)

$$\begin{array}{r} 168749 \\ 5 \overline{) 843745} \\ \underline{-5} \\ 34 \\ \underline{-30} \\ 43 \\ \underline{-40} \\ 37 \\ \underline{-35} \\ 24 \\ \underline{-20} \\ 45 \\ \underline{-45} \\ 00 \end{array}$$

Quotient = 168749
Remainder = 0

(2)

$$\begin{array}{r} 35806 \\ 6 \overline{) 214837} \\ \underline{-18} \\ 34 \\ \underline{-30} \\ 48 \\ \underline{-48} \\ 0037 \\ \underline{-36} \\ 01 \end{array}$$

Quotient = 35806
Remainder = 1

3) $970104 \div 9 = Q = 107789, R = 3$

4) $864906 \div 12$

$$\begin{array}{r}
 72075 \\
 12 \overline{) 864906} \\
 \underline{-84} \\
 24 \\
 \underline{-24} \\
 0090 \\
 \underline{-84} \\
 66 \\
 \underline{-60} \\
 06
 \end{array}$$

Quotient = 72075
Remainder = 6

5) $390418 \div 13$, $Q = 30032$, $R = 2$

6) $598104 \div 14$

$$\begin{array}{r}
 42721 \\
 14 \overline{) 598104} \\
 \underline{-56} \\
 38 \\
 \underline{-28} \\
 101 \\
 \underline{-98} \\
 30 \\
 \underline{-28} \\
 24 \\
 \underline{-14} \\
 10
 \end{array}$$

Quotient = 42721
Remainder = 10

7) $267359 \div 625$

$$\begin{array}{r}
 427 \\
 625 \overline{) 267359} \\
 \underline{-2500} \\
 01735 \\
 \underline{-1250} \\
 04859 \\
 \underline{-4375} \\
 484
 \end{array}$$

$Q = 427$
 $R = 484$

8) $538701 \div 480$

$$\begin{array}{r}
 1122 \\
 (8) \overline{) 538701} \\
 \underline{480} \\
 0587 \\
 \underline{480} \\
 1070 \\
 \underline{960} \\
 1101 \\
 \underline{960} \\
 141
 \end{array}$$

Q = 1122
R = 141

9) $820304 \div 263$, Q = 3119, R = 7

Exercise – 5.3

Write the quotient and remainder in each case.

1) $8374 \div 10$ = Quotient = 837, Remainder = 4

2) $931000 \div 1000$ = Quotient = 931, Remainder = 0

3) $68193 \div 100$ = Quotient = 681, Remainder = 93

4) $964738 \div 100$ = Quotient = 9647, Remainder = 38

5) $16018 \div 10$ = Quotient = 1601, Remainder = 8

6) $490100 \div 1000$ = Quotient = 490, Remainder = 100

7) $390176 \div 10$ = Quotient = 39017, Remainder = 6

8) $6837 \div 1000$ = Quotient = 6, Remainder = 837

9) $87300 \div 100$ = Quotient = 873, Remainder = 0

10) $1324 \div 1000$ = Quotient = 1, Remainder = 324

11) $76433 \div 10$ = Quotient = 7643, Remainder = 3

12) $512 \div 10$ = Quotient = 51, Remainder = 2

13) $881 \div 4$ = Quotient = 220, Remainder = 1

14) $80839 \div 7 = \text{Quotient} = 11548, \text{Remainder} = 3$

15) $25342 \div 20 = \text{Quotient} = 1267, \text{Remainder} = 2$

(16) $21189 \div 51$

Handwritten long division of 21189 by 51. The quotient is 415 and the remainder is 24.

Quotient = 415
Remainder = 24

(17) $62837 \div 32$

Handwritten long division of 62837 by 32. The quotient is 1963 and the remainder is 21.

Quotient = 1963
Remainder = 21

(18) $28869 \div 25$

Handwritten long division of 28869 by 25. The quotient is 1154 and the remainder is 19.

Quotient = 1154
Remainder = 19

19) $84265 \div 17 = \text{Quotient} = 4956, \text{Remainder} = 13$

20) $82305 \div 75 = \text{Quotient} = 1097, \text{Remainder} = 30$

Exercise – 5.4

Solve

1) A number when divided by 38 gives 247 as quotient and 3 as a remainder. Find the number.

Sol- Given - Divisor = 38

$$\text{Quotient} = 247$$

$$\text{Remainder} = 3$$

$$\text{Number (Dividend)} = ?$$

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$= 38 \times 247 + 3$$

$$= 9386 + 3$$

$$= 9389$$

So, Number = 9389

2) 240 eggs are to be packed in trays with 12 eggs in each tray. How many trays will be required ?

Sol- Eggs = 240

$$\text{Eggs in each tray} = 12$$

$$\text{So, Trays will require} = 240 \div 12$$

$$= 20 \text{ trays}$$

3) How many dozens make 11544 ? (Hint : 1 dozen = 12)

Sol- 1 Dozen = 12

$$\text{Total} = 11544$$

$$\text{So, Number of dozens} = 11544 \div 12$$

$$= 962 \text{ dozens}$$

4) 1000 ml of milk is to be poured in 20 glasses, with the same quantity in each glass. How much milk will each glass hold?

Sol- Milk = 1000 ml

Glasses = 20

So, Milk in each glass = $1000 \text{ ml} \div 20$
 $= 50 \text{ ml}$

Exercise – 5.5

Solve using the DMAS rule.

1) $36 \div 6 + 2 \times 5 - 3$

Sol- $36 \div 6 + 2 \times 5 - 3$

$$= 6 + 2 \times 5 - 3$$

$$= 6 + 10 - 3$$

$$= 16 - 3$$

$$= 13$$

2) $3 \times 9 + 81 \div 9 - 4$

Sol - $3 \times 9 + 81 \div 9 - 4$

$$= 3 \times 9 + 9 - 4$$

$$= 27 + 9 - 4$$

$$= 36 - 4$$

$$= 32$$

3) $8342 \div 2 - 200 + 7 \times 0$

Sol - $8342 \div 2 - 200 + 7 \times 0$

$$= 4171 - 200 + 7 \times 0$$

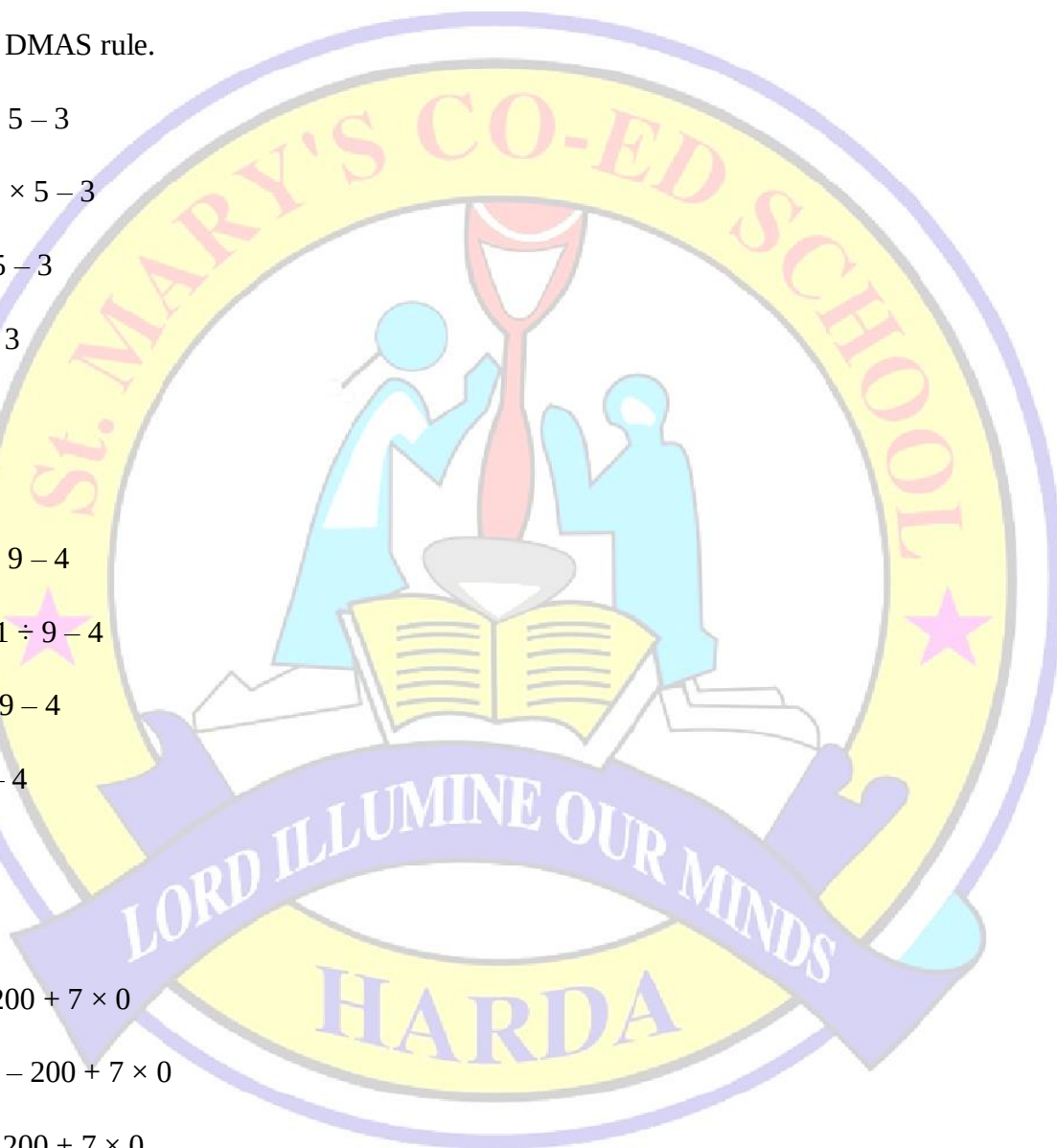
$$= 4171 - 200 + 0$$

$$= 4171 - 200$$

$$= 3971$$

4) $56 \div 7 + 2 \times 5 - 3$

Sol- $56 \div 7 + 2 \times 5 - 3$



$$= 8 + 2 \times 5 - 3$$

$$= 8 + 10 - 3$$

$$= 18 - 3$$

$$= 15$$

5) $8 \times 9 \div 3 + 5 - 2$

Sol- $8 \times 9 \div 3 + 5 - 2$

$$= 8 \times 3 + 5 - 2$$

$$= 24 + 5 - 2$$

$$= 29 - 2$$

$$= 27$$

6) $9 \times 4 \div 2 + 25 - 3$

Sol- $9 \times 4 \div 2 + 25 - 3$

$$= 9 \times 2 + 25 - 3$$

$$= 18 + 25 - 3$$

$$= 43 - 3$$

$$= 40$$

