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L-4 Division

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* Warm-up Exercise

Q.1 (a) Stamps = 42

Children = 6

Each child will get

$$= 42 \div 6$$

$$= 7 \text{ stamps}$$

(b) Crayons = 55

Child = 5

Each child will get

$$= 55 \div 5$$

$$= 11$$

(c) Picture cards = 100

Children = 10

Each child will get

$$= 100 \div 10$$

$$= 10$$

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Q02

(a) $16 \div 4 = 4$

(b) $64 \div 8 = 8$

(c) $54 \div 9 = 6$

Q03

(a) $78 \times 3 = 234$

$\rightarrow 234 \div 78 = 3$

$\rightarrow 234 \div 3 = 78$

(b) $115 \times 4 = 460$

$\rightarrow 460 \div 115 = 4$

$\rightarrow 460 \div 4 = 115$

(c) $38 \times 8 = 304$

$\rightarrow 304 \div 38 = 8$

$\rightarrow 304 \div 8 = 38$

Q04

(a) $18 \rightarrow$ Quotient

(a) $3 \overline{) 54} \rightarrow$ Dividend

$\downarrow$ $\underline{3}$

Divisor 24

$= 24$

$00 \rightarrow$ Remainder

Divisor $\times$ Quotient + Remainder

$= 3 \times 18 = 0$

$= 54$

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Warm-up Exercise

Q04

H.W

18 $\rightarrow$ Quotient
a) 3 $\overline{) 54} \rightarrow$ Dividend

$$\begin{array}{r} 18 \\ 3 \overline{) 54} \\ \underline{30} \\ 24 \\ \underline{24} \\ 00 \end{array}$$

Divisor -

3

00 $\rightarrow$ Remainder

Divisor $\times$ Quotient + Remainder

$$= 3 \times 18 = 0$$

$$= 54$$

H.W

134 $\rightarrow$ Quotient
b) 2 $\overline{) 268} \rightarrow$ Dividend

$$\begin{array}{r} 134 \\ 2 \overline{) 268} \\ \underline{200} \\ 68 \\ \underline{68} \\ 00 \end{array}$$

Divisor

2

$$= 68$$

08

$$= 8$$

Divisor $\times$ Quotient + Remainder

$$= 2 \times 134 + 0$$

$$= 268 + 0$$

$$= 268$$

How

$$\begin{array}{r}
 323 \\
 3 \overline{) 969} \\
 \underline{- 9} \downarrow \\
 06 \\
 \underline{- 6} \downarrow \\
 009 \\
 \underline{- 9} \\
 0
 \end{array}$$

Divisor $\times$ Quotient + Remainder

$$\begin{aligned}
 &= 3 \times 323 + 0 \\
 &= 969 + 0 \\
 &= 969
 \end{aligned}$$

H.W

$$\begin{array}{r}
 122 \\
 d) 4 \overline{) 489} \\
 \underline{- 4} \downarrow \\
 08 \\
 \underline{- 8} \downarrow \\
 09 \\
 \underline{- 8} \\
 01
 \end{array}$$

$$\begin{array}{r}
 122 \\
 \times 4 \\
 \hline
 488 \\
 + 1 \\
 \hline
 489
 \end{array}$$

Divisor $\times$ Quotient + Remainder



$$= 4 \times 122 + 1$$

$$= 489$$

$$\begin{array}{r} 031 \\ (e) \ 5 \overline{) 156} \\ \underline{- 01} \\ 15 \\ \underline{- 15} \\ 006 \\ \underline{- 5} \\ 01 \end{array}$$

$$\begin{array}{r} 31 \\ \times 5 \\ \hline 155 \\ + 1 \\ \hline 156 \end{array}$$

Divisor $\times$ Quotient + Remainder

$$= 5 \times 31 + 1$$

$$= 156$$

$$\begin{array}{r}
 111 \\
 7 \overline{) 779} \\
 \underline{- 7} \downarrow \\
 07 \\
 \underline{- 7} \downarrow \\
 09 \\
 \underline{- 7} \\
 2
 \end{array}$$

Divisor $\times$ Quotient + Remainder

$$= 7 \times 111 + 2$$

$$= 777 + 2$$

$$= 779$$

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Q.5

5. No. of chewing gums = 132

No. of packets = 3

Chewing gums in each

packet = $132 \div 3$

= 44

$$\begin{array}{r} 44 \\ 3 \overline{) 132} \\ \underline{- 12} \\ 012 \\ \underline{- 12} \\ 00 \end{array}$$

∴ There are 44 chewing gums in each packet.

Q06

6. $\frac{1}{3}$ of a dozen

$$= \frac{1}{3} \times \frac{4}{12}$$

$$= 4 \text{ shuttle cocks} = ₹96$$

1 shuttle cock

$$= 96 \div 4$$

$$= ₹24$$

$$\begin{array}{r} 24 \\ 4 \overline{) 96} \\ \underline{- 8} \\ 16 \\ \underline{- 16} \\ 0 \end{array}$$

∴ One shuttle cock costed ₹24 to Aditya.



*

Ex: 4(A)

Q.1 Divide

(a) $2152 \div 2$

$$\begin{array}{r}
 1076 \\
 2 \overline{) 2152} \\
 \underline{- 2} \\
 01 \\
 \underline{- 0} \\
 15 \\
 \underline{- 14} \\
 012 \\
 \underline{- 12} \\
 0
 \end{array}$$

(b) $5764 \div 4$

$$\begin{array}{r}
 1441 \\
 4 \overline{) 5764} \\
 \underline{- 4} \\
 17 \\
 \underline{- 16} \\
 016 \\
 \underline{- 16} \\
 004 \\
 \underline{- 4} \\
 0
 \end{array}$$

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(c) $3169 \div 8$

$$\begin{array}{r}
 0396 \\
 8 \overline{) 3169} \\
 \underline{- 0 \downarrow} \\
 31 \\
 \underline{- 24 \downarrow} \\
 76 \\
 \underline{- 72 \downarrow} \\
 49 \\
 \underline{- 48} \\
 1
 \end{array}$$

(d) $4562 \div 9$

$$\begin{array}{r}
 0506 \\
 9 \overline{) 4562} \\
 \underline{- 0 \downarrow} \\
 45 \\
 \underline{- 45 \downarrow} \\
 006 \\
 \underline{- 0 \downarrow} \\
 62 \\
 \underline{- 54} \\
 8
 \end{array}$$

Q.2 Find the quotient

(a) $1075 \div 5$

$$\begin{array}{r}
 0215 \rightarrow \text{Quotient} \\
 5 \overline{) 1075} \\
 \underline{- 0 \downarrow} \\
 10 \\
 \underline{- 10 \downarrow} \\
 007 \\
 \underline{- 5 \downarrow} \\
 25
 \end{array}$$



$$\begin{array}{r} 25 \\ - 25 \\ \hline 00 \end{array}$$

$$(b) 4273 \div 3$$

$$\begin{array}{r} 1424 \\ 3 \overline{) 4273} \\ \underline{- 3} \downarrow \\ 12 \downarrow \\ \underline{- 12} \downarrow \\ 007 \downarrow \\ \underline{- 6} \downarrow \\ 13 \\ \underline{- 12} \\ 1 \end{array}$$

$$(c) 9108 \div 6$$

$$1518 \rightarrow$$

$$6 \overline{) 9108}$$

$$\underline{- 6} \downarrow$$

$$31$$

$$\underline{- 30} \downarrow$$

$$010$$

$$\underline{- 6} \downarrow$$

$$48$$

$$\underline{- 48}$$

$$00$$



$$d) 1008 \div 9$$

$$\begin{array}{r} 112 \\ 9 \overline{) 1008} \\ \underline{- 9} \downarrow \\ 40 \\ \underline{- 36} \downarrow \\ 18 \\ \underline{- 18} \\ 00 \end{array}$$

$$e) 2025 \div 5$$

$$\begin{array}{r} 405 \\ 5 \overline{) 2025} \\ \underline{- 20} \downarrow \\ 002 \\ \underline{- 0} \downarrow \\ 25 \\ \underline{- 25} \\ 00 \end{array}$$

0 14 100
157 58
0

f) $23861 \div 7$

340
7 $\overline{) 23861}$
- 21 $\downarrow$
28 $\downarrow$
- 28 $\downarrow$
06
- 0 $\downarrow$
61
3 $\downarrow$ 56
05

(g) $13648 \div 8$

01706
8 $\overline{) 13648}$
- 0 $\downarrow$
13 $\downarrow$
- 8 $\downarrow$
56 $\downarrow$
- 56 $\downarrow$
004
- 0 $\downarrow$
48
- 48
0

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$$(h) \quad 38540 \div 4$$

$$\begin{array}{r} 09635 \\ 4 \overline{) 38540} \\ \underline{-0} \downarrow \\ 38 \\ \underline{-36} \downarrow \\ 025 \\ \underline{-24} \downarrow \\ 014 \\ \underline{-12} \downarrow \\ 020 \\ \underline{-20} \\ 000 \end{array}$$

$$(i) \quad 51246 \div 6$$

$$\begin{array}{r} 08541 \\ 6 \overline{) 51246} \\ \underline{-0} \downarrow \\ 51 \\ \underline{-48} \downarrow \\ 032 \\ \underline{-30} \downarrow \\ 024 \\ \underline{-24} \downarrow \\ 006 \\ \underline{-6} \\ 0 \end{array}$$

Q.4 Divide and Check

a) $2149 \div 6$

$$\begin{array}{r}
 358 \\
 6 \overline{) 2149} \\
 \underline{- 18} \downarrow \\
 034 \\
 \underline{- 30} \downarrow \\
 049 \\
 \underline{- 48} \\
 01
 \end{array}$$

$$\begin{array}{r}
 \textcircled{3} \textcircled{4} \\
 358 \\
 \times 6 \\
 \hline
 2148 \\
 + 1 \\
 \hline
 2149
 \end{array}$$

$$6 \times 358 + 1$$

$$= 2149$$

$$(b) 2349 \div 5$$

$$\begin{array}{r} 469 \\ 5 \overline{) 2349} \end{array}$$

$$\begin{array}{r} - 20 \downarrow \\ \hline \end{array}$$

$$034$$

$$\begin{array}{r} - 30 \downarrow \\ \hline \end{array}$$

$$049$$

$$\begin{array}{r} - 45 \\ \hline \end{array}$$

$$04$$

$$\textcircled{3} \textcircled{4}$$

$$469$$

$$\times \quad 5$$

$$2345$$

$$2345$$

$$+ \quad 4$$

$$2349$$

$$5 \times 469 + 4$$

$$= 2349$$



$$(c) 1438 \div 8$$

$$\begin{array}{r}
 179 \\
 8 \overline{) 1438} \\
 \underline{- 8} \downarrow \\
 63 \downarrow \\
 \underline{- 56} \downarrow \\
 78 \\
 \underline{- 72} \\
 6
 \end{array}$$

$$(6)(7)$$

$$\begin{array}{r}
 179 \\
 \times 8 \\
 \hline
 1432 \\
 + 6 \\
 \hline
 1438
 \end{array}$$

$$8 \times 179 + 6$$

$$1432$$

$$(d) 10305 \div 4$$

$$\begin{array}{r}
 2576 \\
 4 \overline{) 10305} \\
 \underline{- 8} \\
 23 \\
 \underline{- 20} \\
 630 \\
 \underline{- 28} \\
 25 \\
 \underline{- 24} \\
 01
 \end{array}$$

$$\begin{array}{r}
 (2)(3)(2) \\
 2576 \\
 \times 4 \\
 \hline
 10304
 \end{array}$$

$$10304$$

$$\begin{array}{r}
 + 1 \\
 \hline
 10305
 \end{array}$$

$$= 4 \times 2576 + 1$$

$$= 10305$$

(e) $10034 \div 6$

$$\begin{array}{r}
 1672 \\
 6 \overline{) 10034} \\
 \underline{- 6} \\
 40 \\
 \underline{- 36} \\
 43 \\
 \underline{- 42} \\
 14 \\
 \underline{- 12} \\
 2
 \end{array}$$

$$\begin{array}{r}
 441 \\
 1672 \\
 \times 6 \\
 \hline
 10032 \\
 + 2 \\
 \hline
 10034
 \end{array}$$

$$\begin{aligned}
 &= 6 \times 1672 + 2 \\
 &= 10034
 \end{aligned}$$

④ ④ ⑤
2 3 6 6 8

X 7

2 5 6 7 6

25676

+ 2

2 5 6 7 8

$$= 7 \times 25678 + 2$$

$$= 25678$$

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Ex : 4 (B)

Q.1 Find the quotient

a) $2580 \div 15$

$$\begin{array}{r} 172 \\ 15 \overline{) 2580} \\ \underline{- 15} \downarrow \\ 108 \downarrow \\ \underline{- 105} \downarrow \\ 030 \downarrow \\ \underline{- 30} \downarrow \\ 00 \end{array}$$

b) $4544 \div 16$

$$\begin{array}{r} 284 \\ 16 \overline{) 4544} \\ \underline{- 32} \downarrow \\ 134 \downarrow \\ \underline{- 128} \downarrow \\ 64 \downarrow \\ \underline{- 64} \downarrow \\ 00 \end{array}$$

c) $19110 \div 35$

$$\begin{array}{r} 546 \\ 35 \overline{) 19110} \\ \underline{- 175} \downarrow \\ 161 \downarrow \\ \underline{- 140} \downarrow \\ 210 \downarrow \\ \underline{- 210} \downarrow \\ 000 \end{array}$$

d) $28272 \div 48$

$$\begin{array}{r} 589 \\ 48 \overline{) 28272} \\ \underline{- 240} \downarrow \\ 427 \downarrow \\ \underline{- 384} \downarrow \\ 432 \downarrow \\ \underline{- 432} \downarrow \\ 000 \end{array}$$

$$e) 11252 \div 97$$

$$\begin{array}{r} 116 \\ 97 \overline{) 11252} \\ \underline{- 97} \downarrow \\ 155 \downarrow \\ \underline{- 97} \downarrow \\ 582 \downarrow \\ \underline{- 582} \downarrow \\ 000 \end{array}$$