

Date

7-DIVISION.

Saathi

Ex-7(A)

Divide the following in your notebook.
Write the quotient and remainder.

a) $3264 \div 4 = Q = 816, R = 0$

$$\begin{array}{r} 4 \overline{) 3264} \quad (816) \\ \underline{32} \\ 0 \\ \underline{6} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

(b) $5663 \div 7 = Q = 809, R = 0$

$$\begin{array}{r} 7 \overline{) 5663} \quad (809) \\ \underline{56} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

(c) $4128 \div 6 = Q = 688, R = 0$

$$\begin{array}{r} 6 \overline{) 4128} \quad (688) \\ \underline{36} \\ 52 \\ \underline{52} \\ 0 \end{array}$$

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(d) $7776 \div 6 = Q = 1296, R = 0$

$$\begin{array}{r} 6 \overline{) 7776} \quad (1296) \\ \underline{6} \\ 17 \\ \underline{12} \\ 57 \\ \underline{54} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

(e) $6708 \div 9 = Q = 745, R = 3$

$$\begin{array}{r} 9 \overline{) 6708} \quad (745) \\ \underline{63} \\ 40 \\ \underline{36} \\ 48 \\ \underline{45} \\ 3 \end{array}$$

(f) $2464 \div 5 = Q = 492, R = 4$

$$\begin{array}{r} 5 \overline{) 2464} \quad (492) \\ \underline{20} \\ 46 \\ \underline{45} \\ 14 \\ \underline{10} \\ 4 \end{array}$$

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(g) $7857 \div 9 = Q = 873, R = 0$

$$\begin{array}{r} 9 \overline{) 7857} \quad (873) \\ \underline{72} \\ 65 \\ \underline{63} \\ 27 \\ \underline{27} \\ 0 \end{array}$$

(h) $8992 \div 8 = Q = 1125, R = 2$

$$\begin{array}{r} 8 \overline{) 8992} \quad (1125) \\ \underline{8} \\ 09 \\ \underline{8} \\ 19 \\ \underline{16} \\ 42 \\ \underline{40} \\ 2 \end{array}$$

(i) $7101 \div 7 = Q = 1014, R = 3$

$$\begin{array}{r} 7 \overline{) 7101} \quad (1014) \\ \underline{70} \\ 10 \\ \underline{7} \\ 31 \\ \underline{28} \\ 3 \end{array}$$

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(j) $8000 \div 6 = Q = 1333, R = 2$

$$\begin{array}{r} 6 \overline{) 8000} \quad (1333) \\ \underline{6} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 2 \end{array}$$

(k) $5140 \div 16 = Q = 321, R = 4$

$$\begin{array}{r} 16 \overline{) 5140} \quad (321) \\ \underline{48} \\ 34 \\ \underline{32} \\ 20 \\ \underline{16} \\ 4 \end{array}$$

(l) $4362 \div 18 = Q = 231, R = 4$

$$\begin{array}{r} 18 \overline{) 4362} \quad (231) \\ \underline{36} \\ 56 \\ \underline{54} \\ 22 \\ \underline{18} \\ 4 \end{array}$$

(m) $3132 \div 35 = Q = 89 \quad R = 17$

$$\begin{array}{r} 35 \overline{) 3132} \quad (89 \\ \underline{280} \\ 328 \\ \underline{315} \\ 17 \end{array}$$

(n) $6080 \div 95 = Q = 64, \quad R = 0$

$$\begin{array}{r} 95 \overline{) 6080} \quad (64 \\ \underline{570} \\ 380 \\ \underline{380} \\ 0 \end{array}$$

(o) $9467 \div 81 = Q = 117 \quad R = 71$

$$\begin{array}{r} 81 \overline{) 9467} \quad (117 \\ \underline{81} \\ 136 \\ \underline{81} \\ 557 \\ \underline{486} \\ 71 \end{array}$$

(p) $3006 \div 14 = Q = 214 \quad R = 10$

$$\begin{array}{r} 14 \overline{) 3006} \quad (214 \\ \underline{28} \\ 20 \\ \underline{14} \\ 66 \\ \underline{56} \\ 10 \end{array}$$

(q) $8724 \div 18 = Q = 48 \quad R = 8$

$$\begin{array}{r} 18 \overline{) 8724} \quad (48 \\ \underline{72} \\ 152 \\ \underline{144} \\ 8 \end{array}$$

(r) $8846 \div 21 = Q = 421 \quad R = 5$

$$\begin{array}{r} 21 \overline{) 8846} \quad (421 \\ \underline{84} \\ 44 \\ \underline{42} \\ 26 \\ \underline{21} \\ 5 \end{array}$$

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$$58 \overline{) 4268} \quad Q = 74 \quad R = 36$$

$$\begin{array}{r} 58 \overline{) 4268} \quad 74 \\ - 406 \downarrow \\ \hline 268 \\ - 232 \downarrow \\ \hline 36 \end{array}$$

$$63 \overline{) 9876} \quad Q = 15 \quad R = 48$$

$$\begin{array}{r} 63 \overline{) 9876} \quad 15 \\ - 63 \downarrow \\ \hline 357 \\ - 315 \downarrow \\ \hline 426 \\ - 378 \downarrow \\ \hline 48 \end{array}$$

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Exercise 7(c)

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Divide and write the quotient and remainder in each case.

$$(a) \quad 75923 \div 3 = Q = 2537 \quad R = 2$$

$$\begin{array}{r} 3 \overline{) 75923} \quad 2537 \\ 6 \downarrow \\ \hline 15 \downarrow \\ - 15 \downarrow \\ \hline 9 \downarrow \\ - 9 \downarrow \\ \hline 23 \\ - 21 \downarrow \\ \hline 2 \end{array}$$

$$(b) \quad 51648 \div 4 = Q = 12912 \quad R = 0$$

$$\begin{array}{r} 4 \overline{) 51648} \quad 12912 \\ 4 \downarrow \\ \hline 11 \downarrow \\ - 8 \downarrow \\ \hline 36 \downarrow \\ - 36 \downarrow \\ \hline 48 \downarrow \\ - 48 \downarrow \\ \hline 0 \end{array}$$

(c) $61464 \div 6 = Q = 10244, R = 0$

$$\begin{array}{r} 6 \overline{) 61464} \quad (10244 \\ \underline{600} \\ 14 \\ \underline{12} \\ 26 \\ \underline{24} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

(d) $97335 \div 7 = Q = 1395, R = 0$

$$\begin{array}{r} 7 \overline{) 97335} \quad (1395 \\ \underline{7} \\ 27 \\ \underline{21} \\ 63 \\ \underline{63} \\ 0 \end{array}$$

(e) $37840 \div 8 = Q = 4730, R = 0$

$$\begin{array}{r} 8 \overline{) 37840} \quad (4730 \\ \underline{32} \\ 58 \\ \underline{56} \\ 240 \\ \underline{240} \\ 0 \end{array}$$

(f) $94675 \div 15 = Q = 6311, R = 11$

$$\begin{array}{r} 15 \overline{) 94675} \quad (6311 \\ \underline{90} \\ 46 \\ \underline{45} \\ 17 \\ \underline{15} \\ 26 \\ \underline{15} \\ 11 \end{array}$$

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(g) $62517 \div 27$ $Q = 2315$ $R = 12$

$$\begin{array}{r} 27 \overline{) 62517} \quad (2315 \\ \underline{54} \\ 85 \\ \underline{81} \\ 31 \\ \underline{27} \\ 147 \\ \underline{135} \\ 12 \end{array}$$

(h) $23645 \div 77$
 $Q = 37$ $R = 6$

$$\begin{array}{r} 77 \overline{) 23645} \quad (37 \\ \underline{231} \\ 545 \\ \underline{539} \\ 6 \end{array}$$

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(i) $7505 \div 61$

$Q = 123$ $R = 2$

$$\begin{array}{r} 61 \overline{) 7505} \quad (123 \\ \underline{61} \\ 140 \\ \underline{122} \\ 185 \\ \underline{183} \\ 2 \end{array}$$

(j) $63814 \div 82 =$
 $Q = 76$ $R = 56$

$$\begin{array}{r} 82 \overline{) 63814} \quad (76 \\ \underline{574} \\ 641 \\ \underline{492} \\ 794 \\ \underline{738} \\ 56 \end{array}$$

(k) $98113 \div 131$

$Q = 131$ $R = 748$

$$\begin{array}{r} 131 \overline{) 98113} \quad (748) \\ \underline{917} \\ 641 \\ \underline{524} \\ 1173 \\ \underline{1048} \\ 125 \end{array}$$

(l) $64921 \div 900$

$Q = 72$ $R = 121$

$$\begin{array}{r} 900 \overline{) 64921} \quad (72) \\ \underline{6300} \\ 1921 \\ \underline{1800} \\ 121 \end{array}$$

(m) $68737 \div 162$

$Q = 424$ $R = 49$

$$\begin{array}{r} 162 \overline{) 68737} \quad (424) \\ \underline{648} \\ 3913 \\ \underline{324} \\ 697 \\ \underline{648} \\ 49 \end{array}$$

(n) $48769 \div 219$

$Q = 222$ $R = 51$

$$\begin{array}{r} 219 \overline{) 48769} \quad (222) \\ \underline{438} \\ 4916 \\ \underline{438} \\ 489 \\ \underline{438} \\ 51 \end{array}$$

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WORD PROBLEMS

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1. If 2584 books are placed equally in 8 shelves, how many books are there in each shelf?

Sol Total No. of books = 2584
 No. of shelves the books to be divided = 8
 Books in each shelf is = $2584 \div 8$

$$\begin{array}{r} 8 \overline{) 2584} \quad (323 \\ \underline{24} \\ 18 \\ \underline{16} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

$\therefore$ The number of books in each shelves = 323

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2. On Republic Day, 8289 flags were equally hoisted in 10 different cities. How many flags were hoisted in each city? Also calculate how many flags were left over?

Sol Number of flags hoisted = 8289
 Number of cities = 10
 Number of flags in each city = $8289 \div 10$

Flags left over = 9

$$\begin{array}{r} 10 \overline{) 8289} \quad (828 \\ \underline{80} \\ 28 \\ \underline{20} \\ 89 \\ \underline{80} \\ 9 \end{array}$$

828 flags hoisted in each city
 flags left over = 9

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3. Monica purchased a gold chain costing ₹33,832 and paid the total amount in 4 equal installments. How much did she pay each time?

Solⁿ

$$\begin{array}{r} 4 \overline{) 33832} (8458 \\ \underline{32} \\ 18 \\ \underline{16} \\ 23 \\ \underline{20} \\ 32 \\ \underline{32} \\ 0 \end{array}$$

Monica paid ₹8458 in each of the 4 installments.

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4. A factory produces 19,998 thumb pins in a day and these pins are packed in 22 boxes having equal number of pins. How many pins are packed in each box?

Solⁿ

$$\begin{array}{r} 22 \overline{) 19998} (99 \\ \underline{198} \\ 198 \\ \underline{198} \\ 0 \end{array}$$

99 pins are packed in each box.

5. Mr Sanjay withdrew ₹27500 from his account in the bank. He asked for the money in ₹100 notes. How many ₹100 notes did the bank give him?

Solⁿ

$$\begin{array}{r} 100 \overline{) 27500} (275 \\ \underline{200} \\ 750 \\ \underline{700} \\ 500 \\ \underline{500} \\ 0 \end{array}$$

6. Mr. Gandhi withdraws ₹12400 from his account. He kept ₹4200 aside and divided the remaining money equally among 5 family members. How much money did each member get?

Soln

$$\begin{array}{r} ₹12400 \\ - ₹4200 \\ \hline ₹8200 \end{array}$$

$$\begin{array}{r} 5 \overline{) 8200} \quad 1640 \\ \underline{5} \\ 32 \\ \underline{30} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

Each member got ₹1640 of money.

7. Anushi paid ₹25,245 for the purchase of watches at a cost of ₹935 per watch. How many watches did she purchase?

Soln

$$\begin{array}{r} 935 \overline{) 25245} \quad 27 \\ \underline{1870} \\ 6545 \\ \underline{6545} \\ 00 \end{array}$$

Anushi purchased 27 watches.

85 In a library there are 80,770 books. The books are kept in almirahs. Each almirah has capacity to hold 985 books. How many are needed to keep all the books.

$$\begin{array}{r}
 985 \overline{) 80,770} \quad (82 \\
 \underline{7880} \\
 1970 \\
 \underline{1970} \\
 0
 \end{array}$$

82 almirahs are needed to keep all the books.

9. A company manufactures 99,831 scooters in 311 days. How many scooters are manufactured in a day?

$$\begin{array}{r}
 311 \overline{) 99,831} \quad (321 \\
 \underline{933} \downarrow \\
 653 \downarrow \\
 \underline{622} \downarrow \\
 311 \downarrow \\
 \underline{311} \\
 0
 \end{array}$$

321 scooters are manufactured in a day.

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10. In a stadium, 83,974 people can be seated. If 242 people can sit in a row of chairs, find the total number of rows in the stadium.

Sol

$$\begin{array}{r}
 242 \overline{) 83974} \quad (347 \\
 \underline{726} \\
 1137 \\
 \underline{968} \\
 1694 \\
 \underline{-1694} \\
 0
 \end{array}$$

347 rows in the stadium.