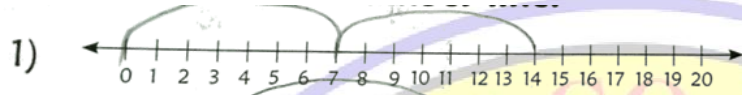


Exercises

Let's Recall

A) Divide on the number line.



$$14 \div 7 = \boxed{2}$$



$$12 \div 3 = \boxed{4}$$

B) Divide the following. Recall your multiplication tables to fill in the boxes.

1) $20 \div 5 = [4]$

2) $14 \div 2 = [7]$

3) $72 \div 8 = [9]$

4) $81 \div 9 = [9]$

5) $100 \div 10 = [10]$

6) $63 \div 7 = [9]$

7) $56 \div 7 = [8]$

8) $48 \div 6 = [8]$

9) $24 \div 3 = [8]$

C) Divide the following using long division.

1) $36 \div 3$

	12
3	36
	-30
	06
	-06
	00

2) $26 \div 2$

	13
2	26
	-20
	06
	-06
	00

3) $91 \div 7$

	13
7	91
	-70
	21
	-21
	00

Exercise-6.1

A) Write two division facts for each multiplication fact.

1) $3 \times 9 = 27$ $[27 \div 9 = 3]$, $[27 \div 3 = 9]$

2) $7 \times 8 = 56$ $[56 \div 8 = 7]$, $[56 \div 7 = 8]$

B) Write the multiplication fact for each division fact.

1) $48 \div 12 = 4$ $[12 \times 4 = 48]$ 2) $36 \div 4 = 9$ $[4 \times 9 = 36]$

3) $63 \div 9 = 7$ $[9 \times 7 = 63]$ 4) $76 \div 19 = 4$ $[19 \times 4 = 76]$

C) Find the divisor.

1) $90 \div [10] = 9$ 2) $42 \div [6] = 7$ 3) $24 \div [4] = 6$

4) $48 \div [6] = 8$ 5) $45 \div [5] = 9$ 6) $35 \div [7] = 5$

Exercise 6.2

Fill in the boxes.

1) $0 \div 3870 = [0]$ 2) $2137 \div [2137] = 1$

3) $4932 \div 4932 = [1]$ 4) $1563 \div 1 = [1563]$

5) $[0] \div 832 = 0$ 6) $[8374] \div 1 = 8374$

Exercise 6.3

A) Divide the following.

1) $3392 \div 2 = 1696$

2) $11168 \div 16 = 698$

$$\begin{array}{r}
 3 \overline{) 32385 \div 51} \\
 \underline{635} \\
 51 \overline{) 32385} \\
 \underline{-306} \\
 178 \\
 \underline{-153} \\
 255 \\
 \underline{-255} \\
 000
 \end{array}$$

B) Divide and verify your answer.

$$1) 9592 \div 22$$

$$\begin{array}{r}
 436 \\
 22 \overline{) 9592} \\
 \underline{-88} \\
 79 \\
 \underline{-66} \\
 132 \\
 \underline{-132} \\
 00
 \end{array}$$

Verification

Quotient $\times$ Divisor = Dividend

$$436 \times 22 = 9592$$

$$9592 = 9592$$

$$2) 13074 \div 3$$

$$\begin{array}{r}
 4358 \\
 3 \overline{) 13074} \\
 \underline{-12} \\
 10 \\
 \underline{-9} \\
 17 \\
 \underline{-15} \\
 24 \\
 \underline{-24} \\
 00
 \end{array}$$

Verification

Quotient $\times$ Divisor = Dividend

$$4358 \times 3 = 13074$$

$$13074 = 13074$$

$$3) 7896 \div 8$$

$$\begin{array}{r} 987 \\ 8 \overline{) 7896} \\ \underline{-72} \end{array}$$

$$\begin{array}{r} 69 \\ \underline{-64} \\ 56 \\ \underline{-56} \\ 00 \end{array}$$

Verification

Quotient $\times$ Divisor = Dividend

$$987 \times 8 = 7896$$

$$7896 = 7896$$

$$4) 41409 \div 43$$

$$\begin{array}{r} 963 \\ 43 \overline{) 41409} \\ \underline{-387} \end{array}$$

$$\begin{array}{r} 270 \\ \underline{-258} \\ 129 \\ \underline{-129} \\ 000 \end{array}$$

Verification

Quotient $\times$ Divisor = Dividend

$$963 \times 43 = 41409$$

$$41409 = 41409$$

Exercise -6.4

Divide into groups.

- 1) 7 flowers into 3 groups.



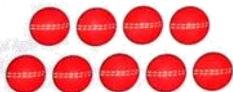
No. of flowers in each group:

2

No. of flowers left over:

1

- 2) 9 balls in 4 groups.



No. of balls in each group:

2

No. of balls left over:

1

- 3) 15 stars in 2 groups.



No. of stars in each group:

7

No. of stars left over:

1

Exercise-6.5

A) Divide the following.

1) $3944 \div 18$

$$\begin{array}{r} 219 \\ 18 \overline{) 3944} \\ \underline{-36} \end{array}$$

$$\begin{array}{r} 34 \\ -18 \\ \hline 164 \\ -162 \\ \hline 002 \end{array}$$

Quotient - 219

Remainder - 02

2) $20563 \div 12$

$$\begin{array}{r} 1713 \\ 12 \overline{) 20563} \\ \underline{-12} \end{array}$$

$$\begin{array}{r} 85 \\ -84 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ -12 \\ \hline \end{array}$$

Quotient - 1713

Remainder - 07

$$\begin{array}{r} 43 \\ -36 \\ \hline 07 \end{array}$$

3) $19862 \div 15$

$$\begin{array}{r} 1324 \\ 15 \overline{) 19862} \\ \underline{-15} \end{array}$$

$$\begin{array}{r} 48 \\ -45 \\ \hline \end{array}$$

Quotient - 1324

Remainder - 02

$$\begin{array}{r} 36 \\ -30 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ -60 \\ \hline \end{array}$$

$$\begin{array}{r} 02 \end{array}$$

B) Divide and verify your answer.

1) $987 \div 30$

$$\begin{array}{r} 32 \\ 30 \overline{) 987} \\ \underline{-90} \\ 87 \\ \underline{-60} \\ 27 \end{array}$$

Dividend = Divisor $\times$ Quotient + Remainder
 $987 = 30 \times 32 + 27$
 $987 = 960 + 27$
 $987 = \underline{987}$

2) $49540 \div 16$

$$\begin{array}{r} 3096 \\ 16 \overline{) 49540} \\ \underline{-48} \\ 154 \\ \underline{-144} \\ 100 \\ \underline{-96} \\ 04 \end{array}$$

Dividend = Divisor $\times$ Quotient + Remainder
 $49540 = 16 \times 3096 + 04$
 $49540 = 49536 + 4$
 $49540 = \underline{49540}$

3) $90807 \div 12$

$$\begin{array}{r} 7567 \\ 12 \overline{) 90807} \\ \underline{-84} \\ 68 \\ \underline{-60} \\ 80 \\ \underline{-72} \\ 87 \\ \underline{-84} \\ 3 \end{array}$$

Dividend = Divisor $\times$ Quotient + Remainder
 $90807 = 12 \times 7567 + 3$
 $90807 = 90804 + 3$
 $90807 = \underline{90807}$

4) $48093 \div 40$

$$\begin{array}{r} 1202 \\ 40 \overline{) 48093} \\ \underline{-40} \\ 80 \\ \underline{-80} \\ 093 \\ \underline{-80} \\ 13 \end{array}$$

Dividend = Divisor $\times$ Quotient + Remainder
 $48093 = 40 \times 1202 + 13$
 $48093 = 48080 + 13$
 $48093 = \underline{48093}$

Exercise-6.6

Fill in the boxes without actually dividing.

					Quotient	Remainder
1)	387	÷	100	→	3	87
2)	2946	÷	10	→	294	6
3)	65430	÷	10	→	6543	0
4)	86731	÷	100	→	867	31
5)	32786	÷	100	→	327	86
6)	103	÷	10	→	10	3
7)	31098	÷	100	→	310	98
8)	94030	÷	10	→	9403	0
9)	653	÷	10	→	65	3
10)	1894	÷	10	→	189	4

Exercise -6.7

- 1) In a school there are 27 classes. Each class has the same number of students. If the total number of students is 972, find the number of students in each class.

Sol1). Total no. of classes is = 27

Total no. of students is = 972

$$\begin{array}{r}
 36 \\
 27 \overline{) 972} \\
 \underline{-81} \\
 162 \\
 \underline{-162} \\
 000
 \end{array}$$

Total no. of students in each class is 36.

- 2) Divide the greatest 5-digit number by the greatest 1-digit number.

Sol2) Greatest 5-digit no. is = 99999

Greatest 1 digit no. is = 9

$$\begin{array}{r}
 11111 \\
 9 \overline{) 99999} \\
 \underline{-9} \\
 09 \\
 \underline{-9} \\
 09 \\
 \underline{-9} \\
 09 \\
 \underline{-9} \\
 09 \\
 \underline{-9} \\
 00
 \end{array}$$

Quotient is 11111

3) Find the quotient if the dividend is 3776 and divisor is 16.

$$\begin{array}{r}
 \text{Dividend is } 3776 \\
 \text{Divisor is } 16 \\
 236 \\
 16 \overline{) 3776} \\
 \underline{-32} \\
 57 \\
 \underline{-48} \\
 96 \\
 \underline{-96} \\
 00
 \end{array}$$

Quotient is 236.

4) The product of two numbers is 2856. One of the number is 4.

$$\begin{array}{r}
 \text{Product of two no. is } 2856 \\
 \text{One of the no. is } = 4 \\
 714 \\
 4 \overline{) 2856} \\
 \underline{-28} \\
 05 \\
 \underline{-4} \\
 16 \\
 \underline{-16} \\
 00
 \end{array}$$

The other no. is 714