

Worksheet

Division

Question 1: Divide:

- $72 \div 8 = 9$
- $54 \div 6 = 9$
- $90 \div 9 = 10$

Question 2: Find the quotient and the remainder, using long division method:

- $42 \div 8$

Answer :

Step 1:

Start by setting it up with the divisor 8 on the left side and the dividend 42 on the right side like this:

$$8 \overline{) 42}$$

Step 2:

The divisor (8) goes into the first digit of the dividend (4), 0 time(s). Therefore, put 0 on top:

$$\begin{array}{r} 0 \\ 8 \overline{) 42} \end{array}$$

Step 3:

Multiply the divisor by the result in the previous step ($8 \times 0 = 0$) and write that answer below the dividend.

$$\begin{array}{r} 0 \\ 8 \overline{) 42} \\ 0 \end{array}$$

Step 4:

Subtract the result in the previous step from the first digit of the dividend ($4 - 0 = 4$) and write the answer below.

$$\begin{array}{r} 0 \\ 8 \overline{) 42} \\ - 0 \\ \hline 4 \end{array}$$

Step 5:

Move down the 2nd digit of the dividend (2) like this:

$$\begin{array}{r} 0 \\ 8 \overline{) 42} \\ - 0 \\ \hline 42 \end{array}$$

Step 6:

The divisor (8) goes into the bottom number (42), 5 time(s). Therefore, put 5 on top:

$$\begin{array}{r} 05 \\ 8 \overline{) 42} \\ - 0 \\ \hline 42 \end{array}$$

Step 7:

Multiply the divisor by the result in the previous step ($8 \times 5 = 40$) and write that answer at the bottom:

$$\begin{array}{r} 05 \\ 8 \overline{) 42} \\ - 0 \\ \hline 42 \\ 40 \end{array}$$

Step 8:

Subtract the result in the previous step from the number written above it. ($42 - 40 = 2$) and write the answer at the bottom.

$$\begin{array}{r}
 05 \\
 8 \overline{) 42} \\
 \underline{- 0} \\
 42 \\
 \underline{- 40} \\
 2
 \end{array}$$

You are done, because there are no more digits to move down from the dividend. The answer is the top number and the remainder is the bottom number.

Therefore, the answer to 42 divided by 8 calculated using Long Division is:

5 Quotient
2 Remainder

- $36 \div 5$

Answer :

Step 1:

Start by setting it up with the divisor 5 on the left side and the dividend 36 on the right side like this:

$$5 \overline{) 36}$$

Step 2:

The divisor (5) goes into the first digit of the dividend (3), 0 time(s). Therefore, put 0 on top:

$$\begin{array}{r}
 0 \\
 5 \overline{) 36}
 \end{array}$$

Step 3:

Multiply the divisor by the result in the previous step ($5 \times 0 = 0$) and write that answer below the dividend.

$$\begin{array}{r}
 0 \\
 5 \overline{) 36} \\
 0
 \end{array}$$

Step 4:

Subtract the result in the previous step from the first digit of the dividend ($3 - 0 = 3$) and write the answer below.

$$\begin{array}{r} 0 \\ 5 \overline{) 36} \\ - 0 \\ \hline 3 \end{array}$$

Step 5:

Move down the 2nd digit of the dividend (6) like this:

$$\begin{array}{r} 0 \\ 5 \overline{) 36} \\ - 0 \\ \hline 36 \end{array}$$

Step 6:

The divisor (5) goes into the bottom number (36), 7 time(s). Therefore, put 7 on top:

$$\begin{array}{r} 07 \\ 5 \overline{) 36} \\ - 0 \\ \hline 36 \end{array}$$

Step 7:

Multiply the divisor by the result in the previous step ($5 \times 7 = 35$) and write that answer at the bottom:

$$\begin{array}{r} 07 \\ 5 \overline{) 36} \\ - 0 \\ \hline 36 \\ 35 \end{array}$$

Step 8:

Subtract the result in the previous step from the number written above it. ($36 - 35 = 1$) and write the answer at the bottom.

$$\begin{array}{r}
 07 \\
 5 \overline{) 36} \\
 \underline{-0} \\
 36 \\
 \underline{-35} \\
 1
 \end{array}$$

You are done, because there are no more digits to move down from the dividend.

The answer is the top number and the remainder is the bottom number.

Therefore, the answer to 36 divided by 5 calculated using Long Division is:

7 Quotient

1 Remainder

- $24 \div 7$

Answer :

Step 1:

Start by setting it up with the divisor 7 on the left side and the dividend 24 on the right side like this:

$$7 \overline{) 24}$$

Step 2:

The divisor (7) goes into the first digit of the dividend (2), 0 time(s). Therefore, put 0 on top:

$$\begin{array}{r}
 0 \\
 7 \overline{) 24}
 \end{array}$$

Step 3:

Multiply the divisor by the result in the previous step ($7 \times 0 = 0$) and write that answer below the dividend.

$$\begin{array}{r}
 0 \\
 7 \overline{) 24} \\
 0
 \end{array}$$

Step 4:

Subtract the result in the previous step from the first digit of the dividend ($2 - 0 = 2$) and write the answer below.

$$\begin{array}{r} 0 \\ 7 \overline{) 24} \\ - 0 \\ \hline 2 \end{array}$$

Step 5:

Move down the 2nd digit of the dividend (4) like this:

$$\begin{array}{r} 0 \\ 7 \overline{) 24} \\ - 0 \\ \hline 24 \end{array}$$

Step 6:

The divisor (7) goes into the bottom number (24), 3 time(s). Therefore, put 3 on top:

$$\begin{array}{r} 0 \\ 7 \overline{) 24} \\ - 0 \\ \hline 24 \end{array}$$

Step 7:

Multiply the divisor by the result in the previous step ($7 \times 3 = 21$) and write that answer at the bottom:

$$\begin{array}{r} 03 \\ 7 \overline{) 24} \\ - 0 \\ \hline 24 \\ 21 \end{array}$$

Step 8:

Subtract the result in the previous step from the number written above it. ($24 - 21 = 3$) and write the answer at the bottom.

$$\begin{array}{r}
 03 \\
 7 \overline{) 24} \\
 \underline{-0} \\
 24 \\
 \underline{-21} \\
 3
 \end{array}$$

You are done, because there are no more digits to move down from the dividend.

The answer is the top number and the remainder is the bottom number.
Therefore, the answer to 24 divided by 7 calculated using Long Division is:

3 Quotient

3 Remainder

Question 3: Divide and check your answer:

- $45 \div 2 =$ The answer to 45 divided by 2 calculated the answer is
= 22 quotient
= 1 Remainder
- $65 \div 8 =$ The answer to 65 divided by 8 calculated using Long is:
= 8 quotient
= 1 Remainder
- $92 \div 6 =$ The answer to 92 divided by 6 calculated using Long is:
= 15 quotient
= 2 Remainder

Question 4: Divide the following:

- $464 \div 2 = 232$
- $840 \div 7 = 105$
- $348 \div 4 = 87$

Question 5: Divide and find the quotient:

- $2,742 \div 6 = 457$
- $8,004 \div 6 = 1334$
- $4,235 \div 7 = 605$
- $8,265 \div 3 = 2755$

Question 6: Divide by 2 and state whether the following numbers are even or odd.

- **98** divided by 2 = 49, therefore even number
- **429** divided by 2 = 214.5, not completely divisible by 2, therefore odd number.
- **6849** divided by 2 = 3424.5, not completely divisible by 2, therefore odd number.

Question 7: Find the quotient and the remainder:

- $167 \div 10$

Quotient = 16
Remainder = 7

- $5,428 \div 10$

Quotient = 542
Remainder = 8

- $8,732 \div 100$

Quotient = 87
Remainder = 32

- $9,879 \div 100$

Quotient = 98
Remainder = 79

- $3,908 \div 100$

Quotient = 39
Remainder = 08

Question 8: Fill in the blanks:

- $6 \div 6 = \underline{1}$
- $10 \div \underline{1} = 10$
- $\underline{16} \div 16 = 1$

Question 9: Write the dividend, the divisor and the quotient in each of the following:

- $45 \div 5 = 9$
Dividend = 45, Divisor = 5, Quotient = 9
- $152 \div 8 = 19$
Dividend = 152, Divisor = 8, Quotient = 19

Question 10: I want to distribute Rs 3,600 among 8 persons. How many rupees will each person get?

Answer : Total Rs. = 3600
To be distributed among = 8 persons
 $3600 \div 8 = 450$ Rs. per person

Question 11: In a division, divisor = 100, quotient = 25 and remainder = 75, find the dividend.

Answer : Divisor = 100, Quotient = 25 and Remainder = 75
Dividend = Quotient x Divisor + Remainder.
Dividend = $25 \times 100 + 75 = 25075$

Question 12: In a division, remainder is always _____ than the divisor.

Answer : The remainder is always less than the divisor. If the remainder is greater than the divisor, it means that the division is incomplete. It can be greater than or lesser than the quotient.

Question 13: $6308 \div 100$ gives quotient = 63 and remainder = 08.

Question 14: Can we divide 0 by a number? _____.

Answer : No, We know that 0 divided by any number is 0, but we also know that any number divided by 0 is undefined.

Question 15: Manish has Rs 84. The cost of one pencil box is Rs 14 How many pencil boxes can Manish buy for Rs 84?

Answer : Total money = RS 84
Cost of 1 pencil box = RS 14
Then cost of x pencil boxes is = $84 \div 14 = 6$
so $x = 6$

Question 16: There are 280 students. They are divided equally into 4 sections. How many students are there in each section?

Answer : $280 \div 4 = 70$

70 the student are there each section

Question 17: The total number of seats in a train is 675 and there are 9 compartments. All the compartments have the same number of seats. How many seats are there in each compartment?

Answer : The total number of seats in a train = 675

No. of Compartments = 9

Seats in each compartment = $675 \div 9 = 75$

Question 18: There are 10 notebooks of the same kind. If the total number of pages is 1, 450, find the number of pages in each notebook.

Answer : The total number of pages = 1,450

Total no. of notebooks = 10

Pages in each notebook = $1450 \div 10 = 145$

Question 19: A bus covers 192 km in 6 hours. Find the distance covered by it in 11 hours.

Answer : Distance covered in 6 hours = 192km

Distance covered in 1 hour = $192 \div 6 = 32\text{m}$

Now, Distance covered in 11 hours = $32 \times 11 = 352\text{km}$

Question 20: Divide the following and check your answer using division algorithm.

- $82 \div 9$

Quotient = 9

Remainder = 1

Dividend = Quotient x Divisor + Remainder.

$$82 = 9 \times 9 + 1 = 82$$

- $34 \div 4$

Quotient = 8

Remainder = 2

Dividend = Quotient x Divisor + Remainder.

$$34 = 8 \times 4 + 2 = 34$$

- $5 \div 7$

Quotient = 0

Remainder = 5

Dividend = Quotient x Divisor + Remainder.

$$5 = 0 \times 7 + 5 = 5$$