

Division with remainders

Use long division. The remainder must be less than the divisor.

1 Study the model.

$$\begin{array}{r}
 26 \text{ R } 1 \\
 6 \overline{) 157} \\
 \underline{- 12} \\
 37 \\
 \underline{- 36} \\
 1
 \end{array}$$

Worked example: $157 \div 6$

- ① 1 is less than 6, so start with 15: $15 \div 6 = 2$, $15 - 12 = 3$.
- ② Bring down the 7: $37 \div 6 = 6$, $37 - 36 = 1$.
- ③ Nothing is left to bring down, and 1 is less than 6. So the answer is 26 R 1.
- ④ Check: $6 \times 26 + 1 = 157$. Back to 157.

2 Divide. Write the remainder beside the quotient, like 9 R 2.

1.

$$\begin{array}{r}
 5 \overline{) 47} \\
 \hline
 \end{array}$$

2.

$$\begin{array}{r}
 3 \overline{) 86} \\
 \hline
 \end{array}$$

3.

$$\begin{array}{r}
 4 \overline{) 95} \\
 \hline
 \end{array}$$

4.

$$\begin{array}{r}
 6 \overline{) 71} \\
 \hline
 \end{array}$$

5.

$$\begin{array}{r}
 8 \overline{) 99} \\
 \hline
 \end{array}$$

6.

$$\begin{array}{r}
 6 \overline{) 139} \\
 \hline
 \end{array}$$

7.

$$\begin{array}{r}
 7 \overline{) 250} \\
 \hline
 \end{array}$$

8.

$$\begin{array}{r}
 5 \overline{) 318} \\
 \hline
 \end{array}$$

9.

$$\begin{array}{r}
 4 \overline{) 614} \\
 \hline
 \end{array}$$

10.

$$\begin{array}{r}
 6 \overline{) 793} \\
 \hline
 \end{array}$$

3 Solve the sports day problems.

11. 123 students make relay teams of 4. How many full teams are there? How many students are left over?

teams left

12. A coach shares 75 pinnies equally among 8 teams. How many does each team get? How many are left?

each left