

WORK SHEET

Find the quotient and remainder for the following using the long division algorithm.

$$1. \quad 2 \overline{)920}$$

$$6. \quad 8 \overline{)6633}$$

$$11. \quad 2 \overline{)6720}$$

$$16. \quad 9 \overline{)8737}$$

$$21. \quad 7 \overline{)8529}$$

$$2. \quad 5 \overline{)2678}$$

$$7. \quad 7 \overline{)1303}$$

$$12. \quad 8 \overline{)6109}$$

$$17. \quad 7 \overline{)7873}$$

$$22. \quad 3 \overline{)2798}$$

$$3. \quad 7 \overline{)7196}$$

$$8. \quad 5 \overline{)5532}$$

$$13. \quad 8 \overline{)1695}$$

$$18. \quad 6 \overline{)4609}$$

$$23. \quad 3 \overline{)2996}$$

$$4. \quad 3 \overline{)5447}$$

$$9. \quad 5 \overline{)3554}$$

$$14. \quad 8 \overline{)8631}$$

$$19. \quad 3 \overline{)6353}$$

$$24. \quad 3 \overline{)1177}$$

$$5. \quad 4 \overline{)8577}$$

$$10. \quad 5 \overline{)302}$$

$$15. \quad 3 \overline{)8295}$$

$$20. \quad 9 \overline{)2871}$$

$$25. \quad 5 \overline{)7524}$$

ANSWERS

1.
$$2 \overline{)920}$$

$$\begin{array}{r} 460 \\ -8 \\ \hline 12 \\ -12 \\ \hline 00 \\ \quad\quad\quad 73 \\ \quad\quad\quad 72 \\ \hline \quad\quad\quad 1 \\ \quad\quad\quad 535 \end{array}$$

2.
$$5 \overline{)2678}$$

$$\begin{array}{r} 25 \\ -17 \\ \hline 15 \\ -28 \\ \hline 25 \\ -3 \\ \hline 1028 \\ 7 \overline{)7196} \end{array}$$

3.
$$7 \overline{)7196}$$

$$\begin{array}{r} 1106 \\ -5 \\ \hline 019 \\ -14 \\ \hline 56 \\ -56 \\ \hline 0 \\ \quad\quad\quad 30 \\ \quad\quad\quad 2 \\ \hline 1815 \\ 3 \overline{)5447} \end{array}$$

4.
$$3 \overline{)5447}$$

$$\begin{array}{r} 710 \\ -5 \\ \hline 04 \\ -24 \\ \hline 04 \\ -3 \\ \hline 17 \\ -15 \\ \hline 2 \\ \hline 1815 \\ 3 \overline{)5447} \end{array}$$

5.
$$4 \overline{)8577}$$

$$\begin{array}{r} 3360 \\ -2 \\ \hline 07 \\ -4 \\ \hline 17 \\ -16 \\ \hline 1 \\ \quad\quad\quad 12 \\ \quad\quad\quad 00 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

6.
$$8 \overline{)6633}$$

$$\begin{array}{r} 763 \\ -56 \\ \hline 50 \\ -48 \\ \hline 29 \\ \quad\quad\quad 24 \\ \hline \quad\quad\quad 5 \\ \quad\quad\quad 1 \\ \hline 535 \end{array}$$

7.
$$7 \overline{)1303}$$

$$\begin{array}{r} 186 \\ -7 \\ \hline 60 \\ -56 \\ \hline 43 \\ -42 \\ \hline 1 \\ \hline 1028 \\ 7 \overline{)7196} \end{array}$$

8.
$$5 \overline{)5532}$$

$$\begin{array}{r} 1078 \\ -8 \\ \hline 063 \\ -56 \\ \hline 71 \\ -64 \\ \hline 7 \\ \hline 1815 \\ 3 \overline{)5447} \end{array}$$

9.
$$5 \overline{)3554}$$

$$\begin{array}{r} 2765 \\ -6 \\ \hline 22 \\ -21 \\ \hline 19 \\ -18 \\ \hline 15 \\ -15 \\ \hline 0 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

10.
$$5 \overline{)302}$$

$$\begin{array}{r} 30 \\ -02 \\ \hline 15 \\ -15 \\ \hline 0 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

11.
$$2 \overline{)6720}$$

$$\begin{array}{r} 970 \\ -81 \\ \hline 63 \\ -63 \\ \hline 0 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

12.
$$8 \overline{)6109}$$

$$\begin{array}{r} 1124 \\ -7 \\ \hline 08 \\ -7 \\ \hline 17 \\ \quad\quad\quad 14 \\ \hline 33 \\ -28 \\ \hline 5 \\ \hline 535 \end{array}$$

13.
$$8 \overline{)1695}$$

$$\begin{array}{r} 211 \\ -16 \\ \hline 09 \\ -8 \\ \hline 15 \\ \quad\quad\quad 8 \\ \hline 7 \\ \hline 1028 \\ 7 \overline{)7196} \end{array}$$

14.
$$8 \overline{)8631}$$

$$\begin{array}{r} 48 \\ -8 \\ \hline 063 \\ -56 \\ \hline 71 \\ -64 \\ \hline 7 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

15.
$$3 \overline{)8295}$$

$$\begin{array}{r} 2117 \\ -6 \\ \hline 03 \\ -05 \\ \hline 3 \\ -22 \\ \hline 19 \\ -18 \\ \hline 15 \\ -15 \\ \hline 0 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

16.
$$9 \overline{)8737}$$

$$\begin{array}{r} 319 \\ -27 \\ \hline 17 \\ -9 \\ \hline 81 \\ -81 \\ \hline 0 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

17.
$$7 \overline{)7873}$$

$$\begin{array}{r} 1218 \\ -7 \\ \hline 08 \\ -7 \\ \hline 17 \\ \quad\quad\quad 14 \\ \hline 33 \\ -28 \\ \hline 5 \\ \hline 535 \end{array}$$

18.
$$6 \overline{)4609}$$

$$\begin{array}{r} 932 \\ -42 \\ \hline 40 \\ -36 \\ \hline 49 \\ -48 \\ \hline 1 \\ \hline 1028 \\ 7 \overline{)7196} \end{array}$$

19.
$$3 \overline{)6353}$$

$$\begin{array}{r} 998 \\ -6 \\ \hline 03 \\ -05 \\ \hline 3 \\ -22 \\ \hline 19 \\ -18 \\ \hline 15 \\ -15 \\ \hline 0 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

20.
$$9 \overline{)2871}$$

$$\begin{array}{r} 392 \\ -27 \\ \hline 17 \\ -13 \\ \hline 21 \\ -21 \\ \hline 0 \\ \hline 2144 \\ 4 \overline{)8577} \end{array}$$

21.
$$7 \overline{)8529}$$

$$\begin{array}{r} 1504 \\ -7 \\ \hline 15 \\ -14 \\ \hline 12 \\ \quad\quad\quad 7 \\ \hline 59 \\ -56 \\ \hline 3 \\ \hline 535 \end{array}$$

22.
$$3 \overline{)2798}$$

$$\begin{array}{r} 27 \\ -27 \\ \hline 09 \\ -9 \\ \hline 08 \\ -08 \\ \hline 0 \\ \hline 535 \end{array}$$

23.
$$3 \overline{)2996}$$

$$\begin{array}{r} 27 \\ -27 \\ \hline 29 \\ -27 \\ \hline 27 \\ -27 \\ \hline 26 \\ -24 \\ \hline 2 \\ \hline 535 \end{array}$$

24.
$$3 \overline{)1177}$$

$$\begin{array}{r} 27 \\ -27 \\ \hline 27 \\ -27 \\ \hline 07 \\ -07 \\ \hline 6 \\ -1 \\ \hline 1 \\ \hline 535 \end{array}$$

25.
$$5 \overline{)7524}$$

$$\begin{array}{r} 25 \\ -25 \\ \hline 024 \\ -20 \\ \hline 4 \\ \hline 535 \end{array}$$