Multiplying/Dividing Decimals.

Solve the following multiplication and division problems. If the division problem requires you to add zeroes, you only need to go two more steps (i.e., add zeroes and carry out the calculation) and you can be done. Make sure to show your work, including all intermediary steps!

1.   3.1 x 8.2

$$3.1$$
$$\times 8.2$$
$$\overline{}$$
.6 2
2480
$$\overline{254\,2}$$ → 25.42

1+1=2

↓

A: 25.42

2.   4.61 x 5.73

³4.61
$$\times 5.73$$
$$\overline{}$$
1'3 83
322 70
230 5 00
$$\overline{264\,1\,53}$$ 26.4153

2+2=4

↓

A: 26.4153

3.   6.553 x 21.1

$$\begin{array}{r}
6.553 \\
\times\ 21.100 \\
\hline
0000 \\
00000 \\
655300 \\
6553000 \\
13106\ 0000 \\
\hline
1382.68300
\end{array}$$

3+3=6

↓ A: 138.2683

= 138.268300

= 138.2683

4. 46.42 x 5.668

$$\begin{array}{r}
46.420 \\
\times\ 5.668 \\
\hline
371360 \\
2784200 \\
27842000 \\
232100000 \\
\hline
263.097560
\end{array}$$

3+3=6

↓

A: 263.09756

→ 263.097560

= 263.09756

5. 62.3152 x 48.20176

$$62.3\overset{.}{1}\overset{2}{5}2$$
$$48.2\,0\,1\,7\,6$$
$$4 + 5 = 9$$

$$3\,7\,3\,8\,9\,1\,2$$
$$4\,3\,6\,2\,0\,6\,4\,0$$
$$6\,2\,3\,1\,5\,2\,0\,0$$
$$0\,0\,0\,0\,0\,0\,0\,0$$
$$2\,1\,2\,4\,6\,3\,0\,4\,0\,0\,0$$
$$4\,9\,8\,5\,2\,1\,6\,0\,0\,0\,0\,0$$
$$2\,4\,9\,2\,6\,0\,8\,0\,0\,0\,0\,0\,0$$
$$3\,0\,0\,3.7\,0\,2\,3\,1\,4\,7\,5\,2$$

A: 3003.702314752

6. 9.81 ÷ 3.25

3.25⟌981

$$325\overline{)981}\ \ \ \overset{003}{}$$
$$-975$$
$$6$$

A: $3\frac{6}{325}$

7. 25.4 ÷ 3.21

$$3.21 \overline{)25.4}$$

$$321 \overline{)\begin{array}{r} 0007 \\ 2540 \\ -2247 \\ \hline 293 \end{array}}$$

A: $7\dfrac{293}{321}$

8. 36.467 ÷ 8.54

$$8.54 \overline{)36.467}$$

$$8540 \overline{)\begin{array}{r} 00004 \\ 36467 \\ -34160 \\ \hline 2307 \end{array}}$$

A: $4\dfrac{2307}{8540}$

9. 146.12 ÷ 19.883

$$19.883 \overline{)146.12}$$

$$19883 \overline{)146420}$$
$$00\,0007$$
$$-139181$$
$$6939$$

$$A: 7 \frac{6939}{19883}$$

10. 1542.6801 ÷ 14.32

$$14.32 \overline{)1542.6801}$$

$$143200 \overline{)15426801}$$
$$000000\,107$$
$$-143200 \downarrow\downarrow$$
$$1106801$$
$$-1002400$$
$$104401$$

$$A: 107 \frac{104401}{143200}$$

Submit your work as essay "Multiplying/Dividing Decimals."