

Module 2/ Basic Arithmetic**Division Worksheet**

Solve, using long division and without using your calculator, then check your answers with the key below, and enter the number correct out of 20.

1 a.

$$18 \overline{) 630}$$

1 b.

$$94 \overline{) 282}$$

1 c.

$$59 \overline{) 944}$$

2 a.

$$21 \overline{) 483}$$

2 b.

$$37 \overline{) 777}$$

2 c.

$$25 \overline{) 800}$$

3 a.

$$83 \overline{) 498}$$

3 b.

$$30 \overline{) 540}$$

3 c.

$$21 \overline{) 336}$$

4 a.

$$70 \overline{) 490}$$

4 b.

$$34 \overline{) 578}$$

4 c.

$$30 \overline{) 120}$$

Divide the following, using your calculator, indicating not only the magnitude of the quotient, but proper units as well.

5 a. $25.5 \text{ m} / 4.3 \text{ s} = \underline{\hspace{2cm}}$

5 b. $195 \text{ mi} / 3.5 \text{ hrs} = \underline{\hspace{2cm}}$

6 a. $610 \text{ J} / 15 \text{ s} = \underline{\hspace{2cm}}$

6 b. $(175 \text{ mol})(15 \text{ s}) = \underline{\hspace{2cm}}$

7 a. $45 \text{ g} / 15 \text{ L} = \underline{\hspace{2cm}}$

7 b. $135 \text{ pounds} / 9.2 \text{ in}^2 = \underline{\hspace{2cm}}$

8 a. $96 \text{ g} / 44 \text{ cm}^3 = \underline{\hspace{2cm}}$

8 b. $21.0 \text{ N} / 9 \text{ cm}^2 = \underline{\hspace{2cm}}$

Answer Key

1 a. 35

1 b. 3

1 c. 16

2 a. 23

2 b. 21

2 c. 32

3 a. 6

3 b. 18

3 c. 16

4 a. 7

4 b. 17

4 c. 4

All answers below do not reflect the correct number of significant figures – will explore in later module.

5 a. $5.9 \text{ m} / \text{s}$ (unit of velocity)

5 b. $56 \text{ mi} / \text{hr}$ (unit of velocity)

6 a. $41 \text{ J} / \text{s}$ (or watts, unit of power)

6 b. $12 \text{ mol} / \text{s}$ (rate for conversion of molecules)

7 a. $3 \text{ g} / \text{L}$ (unit for density)

7 b. $15 \text{ pounds} / \text{in}^2$ (*psi*, units for pressure)

8 a. $2.2 \text{ g} / \text{cm}^3$ (unit for density)

8 b. $2.3 \text{ N} / \text{cm}^2$, or 2.3 Pascals (unit of pressure)

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