

Master Maths 10 Worksheet 3

Fractions - Problem Solving

3

Name: _____

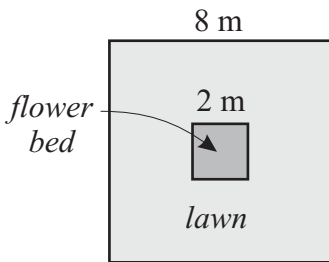
Give all fraction answers as mixed numbers in their simplest form.

1. (a) What fraction of the alphabet is vowels?

(b) How many pieces of wood each one third of a metre long could be cut from a 4 m length of timber?

(c) How many thirds are in a quarter?

2. An 8 m square garden consists of a 2 m square flower bed surrounded by lawn. What fraction of the garden is lawn?



3. 800 mL of water was poured into an empty container making it two-fifths full. What is the capacity of the container?

4. Jay, Fay, Kay and Ray painted a house. Jay did one quarter of the work, Fay did one third and Kay did one fifth. Ray was paid \$520. What should the others get paid?

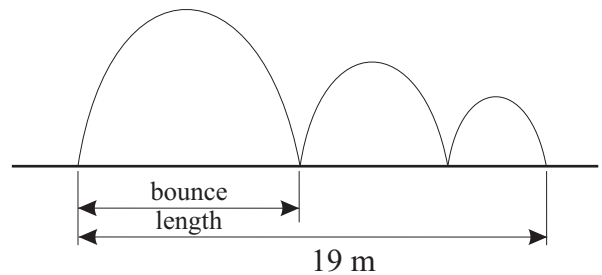
Jay	
Fay	
Kay	

5. Maddy was using bricks to pave a driveway. He took $4\frac{1}{2}$ hours to lay 360 bricks and had laid three-eighths of the driveway.

(a) How many more bricks would he need to complete paving the driveway?

(b) How much longer will it take him?

6. A ball was thrown and bounced as shown below.



The length of each bounce was two thirds of the previous bounce.

The total distance of the three bounces was 19 m.

Calculate the length of the first bounce.

7. Use a calculator to solve this problem

$$\frac{6\frac{2}{5} \times (2\frac{3}{4} + 3\frac{5}{6})}{7\frac{2}{7} - 4\frac{1}{3}}$$