<u>Year 6 Gold Badge</u> - Complete both tasks and hand this back to your class teacher for them to mark.

Task 1

Associate a fraction with division

- 1. In the 2012 Tour de France there were 20 stages altogether.
- $\frac{1}{5}$ were medium mountain stages
- $\frac{1}{4}$ were mountain stages
- ¹/₁₀ were individual time-trial stages
- The rest were flat stages.
- How many of each type of stage were there?
- 2. $\frac{1}{3}$ of the flat stages, $\frac{1}{2}$ of the medium mountain stages and 100% of the time trials were won by British riders.
- How many stages altogether were won by British riders?

Task 2

Calculate the area of parallelograms and triangles.

James wants to make a gift box out of a chocolate box in the shape of a triangular prism. The box is 30 cm long with and equilateral triangle of side 5 cm making the faces at each end of the box. The box is 4 cm high. James wants to paint the box. James needs one tin of paint for every 100 cm². Each tin of paint costs £3.30. How much will it cost for James to paint the chocolate box?