



Deepen Activities

1 Mrs Dean wants to fill a paddling pool using three different hoses. The first hose fills 75 litres per minute. The second hose fills 75 pints per minute. The third hose fills 750 ml per second.

- Which hose is the slowest?
- Mrs Dean fills the paddling pool using all 3 hoses. How much water would be in the pool after 1 hour?
- Mrs Dean decides not to use all the hoses and after exactly 1 minute, she removes one. After 5 minutes there is over 600 litres of water in the pool. Which hose did Mrs Dean remove?

I will use the fact that 1 pint is about 550 ml to convert them all to the same unit of measure.



2 A rectangular football pitch has a perimeter of $\frac{1}{5}$ of a mile. The width of the pitch is 65 metres. What is the area of the pitch?

I know that
1 mile = 1.6 km.



3 a) Five oranges weigh 675 g. Three oranges and one melon weigh 2.2 kg.

What is the mass of the melon?

- Six pineapples and one apple weigh 3.72 kg. One pineapple and three apples weigh 960 grams. What is the mass of one pineapple?
- What is the mass of one apple?