GRWW1 4a Fruit and nut problems

For these problems: 1 blackberry = 3grms and 1 conker = 14grms

1. A collecting basket holds 500 blackberries. How much would it weigh? 500x 3 = 1500g
2. The label on a jar of jam says it contains 255grms of blackberries. How many blackberries were used to make the jam inside the jar? 255/3 = 85 blackberries
3. Slimbridge School collected 10.98kgs of blackberries. How many blackberries did they collect? 10.98kg = 10980g. 10980/3 = 3660 blackberries
4. Edward collected 498 grms of blackberries – but he ate 20 blackberries. How many blackberries were left? 498/3 = 166 blackberries, less 20 eaten = 146 blackberries left.
5. Tibberton School collected 7.98kgs of blackberries, while Slad School collected 2950 blackberries.

a) Which school collected the most blackberries in terms of weight? Slad collected 2950 x 3 = 8850grms = 8.85kg

b) Which school collected the highest number of blackberries? 7.98kg = 2660 blackberries, so Slad School collected most.

6. Each child received £3.00 for every 1kg of blackberries collected. If Peter collected 25kgs of blackberries, how much money did he make? £3 x 25 = £75
7. Mary collected 52 conkers. How much did these weigh? 52 x 14g = 728grms
8. The children of Christchurch School collected 35kgs of conkers. How many conkers did the children collect? 35kgs = 35000/14grms = 2500
9. During WW1, a total of 3,000 tonnes of conkers were collected by schoolchildren. How many conkers were collected in total? 3000 tonnes = 3,000,000kgs. 3,000,000kgs = 3,000,000,000grms. 3,000,000,000/14 = 214,285,714. Or 14g = 0.014kg so 3,000,000/0.014 = 214, 285,714
10. Every rifle round made at the munitions factory at Quedgeley contained 15grms of cordite propellant. If it takes 10 conkers to produce 1grm of cordite, how many conkers are needed for each round? In 1918, British factories made 2,800 million rifle rounds. If the cordite in them had all made from conkers how many would have been needed? 1 round needs 10 x 15 = 150 conkers, 2,800,000,000 x 150 = 420,000,000,000 or 420 billion.