1)

| $\frac{1}{2}$ | **<** | 60% | **>** | 0.3 | **>** | $\frac{1}{5}$ |

| 30% | **>** | 0.25 | **=** | $\frac{2}{8}$ | **>** | 0.17 |

| 71% | **>** | $\frac{2}{3}$ | **>** | 0.65 | **>** | $\frac{3}{5}$ |

2) *13% of the books are dictionaries or thesauruses and 44% of the books are fiction. Therefore, 43% of the books are non-fiction. There are more fiction books.*

3) **a)** *Ginger: 16% is less than 22% (black), 40% (brown) and 22% (blonde).*

   b) *Blonde and black: 22% of children have blonde hair and 22% have black.*

1) *Jack is incorrect. 35% of the marbles are red; 12% are yellow; 18% are green; 20% are blue. This totals 85%, which means that the remaining 15% of the marbles are pink. Therefore, there are fewer yellow marbles in the bag than any other colour.*

2) *As a fraction, the answer to riddle A is 1/4. The answer to riddle 2 is 1/3. The answer to riddle C is 4/5. Therefore, the answer to riddle C does indeed have the greatest value.*

1)

Peter's Pink Party Smoothie 500m

Ingredients	Proportion	Amount in ml
Watermelon	10%	**50ml**
Strawberry	0.25	**125ml**
Apple	$\frac{2}{5}$	**200ml**
Raspberry	0.1	**50ml**
Beetroot	$\frac{3}{20}$	**75ml**

Ruby's Rainbow Rush Smoothie 600ml

Ingredients	Proportion	Amount in ml
Watermelon	$\frac{6}{100}$	**36ml**
Strawberry	0.2	**120ml**
Apple	30%	**180ml**
Raspberry	0.04	**24ml**
Beetroot	$\frac{2}{5}$	**240ml**

Graeme's Glorious Smoothie 800ml

Ingredients	Proportion	Amount in ml
Watermelon	$\frac{5}{100}$	**40ml**
Strawberry	$\frac{1}{5}$	**160ml**
Apple	25%	**200ml**
Raspberry	0.1	**80ml**
Beetroot	0.4	**320ml**

a) **Peter's Pink Party**

b) **Ruby's Rainbow Rush**

c) **Ruby's Rainbow Rush**

d) **Ruby's Rainbow Rush**

e) **Graeme's Glorious Smoothie**

2) Answers will vary.