



- 1) a) For every 1 circle, there are **3** triangles.
 b) For every 2 circles, there are **6** triangles.
 c) For every 3 circles, there would be **9** triangles.
 d) For every 12 triangles, there would be **4** circles.
- 2) a) For every 3 pentagons, there are **2** triangles and **5** circles.
 b) For every 10 circles, I would have **6** pentagons.
 c) For every 6 triangles, I would have **9** pentagons.
 d) For every 40 shapes, I would have **8** triangles, **12** pentagons and **20** circles.
- 3) a) For every 1 banana, there are **3** apples.
 b) For every 3 bananas, there are **9** apples.
 c) For every 21 apples, I would have **7** bananas.
 d) For every 40 pieces of fruit I would have **10** bananas and **30** apples.



- 1) a) *This could not be true. There are 4 boys for every 1 girl, therefore there must be more boys in Mrs Hull's class than girls. They cannot be equal in number.*
 b) *This could be true. 1 girl for every 4 boys; 2 girls for every 8 boys; 3 girls for every 12 boys; 4 girls every 16 boys; 5 girls for every 20 boys.*
 c) *This could not be true. The ratio of girls to boys is 1 girl to every 4 boys. Therefore, 1 girl for every 4 boys; 2 girls for every 8 boys; 3 girls for every 12 boys; 4 girls for every 16 boys. There could be more than 13 boys but if there were 13 boys exactly, the ratio of 4 boys for every one girl would not be correct.*
- 2) a) *Disagree. There are 3 squares for every 1 triangle or 6 squares for every 2 triangles.*
 b) *Partially agree. There would be 9 squares but there would actually be 3 triangles, not 4.*
 c) *Partially agree. There would be 4 triangles and 8 circles, but there would be 12 squares, not 9.*



- 1) a) For every 1 pentagon, there are **3** triangles, **2** squares and **4** circles.
 b) For every 5 pentagons, there are **15** triangles, **10** squares and **20** circles.
 c) For every 70 shapes, there are **7** pentagons, **21** triangles, **14** squares and **28** circles.
- 2) *It would take 7 weeks to buy 56 apples therefore they would have bought:*
 Lemons: **21**
 Bananas: **70**
 Oranges: **28**
 Total: $56 + 21 + 70 + 28 = 175$