Mrs. Gregory & Mrs. Postlethwaite's group – Reasoning and problem solving answers

Bronze

1a. 0.5 and $\frac{1}{2}$, 0.25 and $\frac{1}{4}$, 0.75 is the odd one out.

2a. Annie the ant travels furthest because $\frac{3}{4}$ m is equivalent to 0.75m and Cecil the centipede only travels 0.5m or $\frac{1}{2}$ m.

3a. 0.5

1b. 0.5 and $\frac{3}{4}$, 0.25 and $\frac{1}{4}$, $\frac{1}{2}$ is the odd one out.

2b. Freddy the frog hops the fastest because he can hop 5m in only 0.25 of a minute which is equivalent to $\frac{1}{4}$ of a $\frac{1}{2}$ minute. It takes Tommy the toad a minute or 0.5 minutes to travel the same distance.

3b. $\frac{1}{4}$

Silver

4a. 0.5 and $\frac{5}{10}$, 0.25 and $\frac{1}{4}$, 0.25 is the odd one out.

5a. Lucy the ladybird travels furthest because $\frac{50}{100}$ m is equivalent to $\frac{1}{2}$ m or 0.5m and Sidney the snail only travels 0.25m or $\frac{1}{4}$ m.

6a. 0.25

4b. 0.75 and $\frac{6}{8}$, 0.25 and $\frac{25}{100}$, 0.5 is the odd one out.

5b. Barry the beetle is fastest because he can run 5m in $\frac{3}{12}$ or $\frac{1}{4}$ or 0.25 of a minute. It takes Sammy the spider 0.75 or $\frac{3}{4}$ of a minute.

6b. $\frac{9}{12}$

Gold

7a. 0.5 and $\frac{8}{16}$, 0.25 and $\frac{5}{20}$, 0.75 and $\frac{9}{12}$ $\frac{6}{10}$ is the odd one out.

8a. Wally the worm and Katie the caterpillar both travel the same distance as 0.75m is equivalent to $\frac{18}{24}$ or $\frac{3}{4}$ m.

9a. $\frac{2}{8}$ or $\frac{8}{32}$ or $\frac{12}{48}$ or $\frac{20}{80}$ (accept any correct fraction with an 8 in it)

7b. 0.5 and $\frac{32}{64}$, 0.75 and $\frac{18}{24}$, $\frac{5}{20}$ and $\frac{25}{100}$ 0.3 is the odd one out.

8b. Claire the cricket can jump the fastest because she can jump 1 mile in $\frac{7}{28}$ or $\frac{1}{4}$ or 0.25 of a hour. It takes Gary the grasshopper $\frac{12}{16}$ or $\frac{3}{4}$ or 0.75 of a minute.

9b. $\frac{36}{48}$ or $\frac{27}{36}$