Homework/Extension Step 3: Use Line Graphs to Solve Problems

National Curriculum Objectives:

Mathematics Year 6: (6S1) <u>Interpret and construct pie charts and line graphs and use these to solve problems</u>

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Interpreting information from a line graph using graphs with up to 2 sets of data and increments of 2 and 10 on the y axis.

Expected Interpreting information from a line graph using graphs with up to 3 sets of data and increments of 2 and 10 on the y axis, with some sub-divisions between increments.

Greater Depth Interpreting information from a line graph using graphs with up to 3 sets of data, in increments of multiples of 2 and 10 on the y axis, using sub-divisions between increments.

Questions 2, 5 and 8 (Varied Fluency)

Developing Comparing sets of data using graphs with up to 2 sets of data and increments of 2 and 10 on the y axis.

Expected Comparing sets of data using graphs with up to 3 sets of data and increments of 2 and 10 on the y axis, with some sub-divisions between increments.

Greater Depth Comparing sets of data using graphs with up to 3 sets of data, in increments of multiples of 2 and 10 on the y axis, using sub-divisions between increments.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Interpret information and explain reasons for the results using graphs with up to 2 sets of data and increments of 2 and 10 on the y axis.

Expected Interpret information and explain reasons for the results using graphs with up to 3 sets of data and increments of 2 and 10 on the y axis, with some sub-divisions between increments.

Greater Depth Interpret information and explain reasons for the results using graphs with up to 3 sets of data, in increments of multiples of 2 and 10 on the y axis, using sub-divisions between increments.

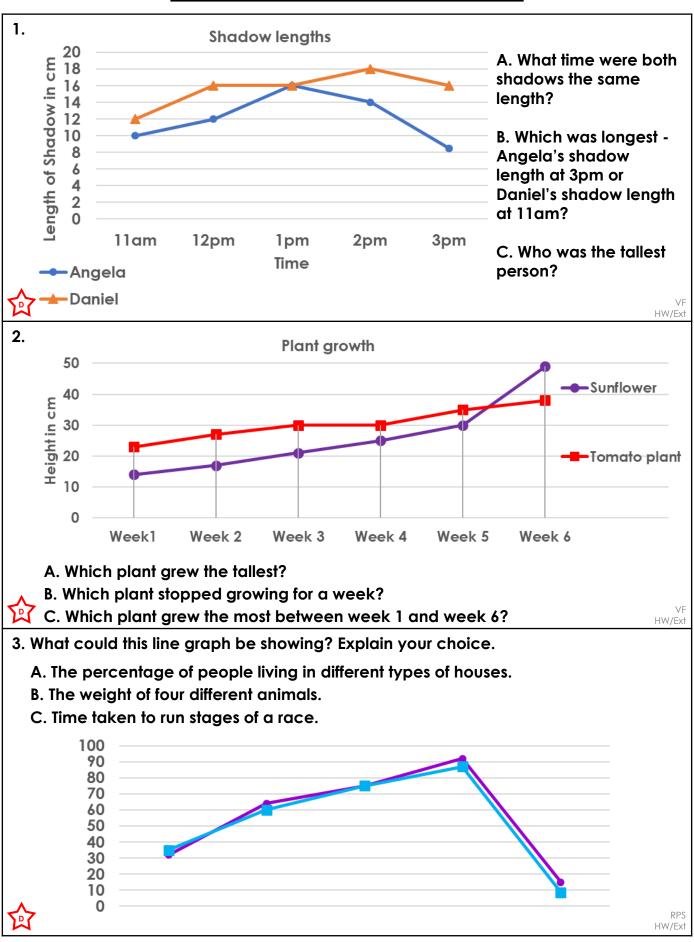
More Year 6 Statistics resources.

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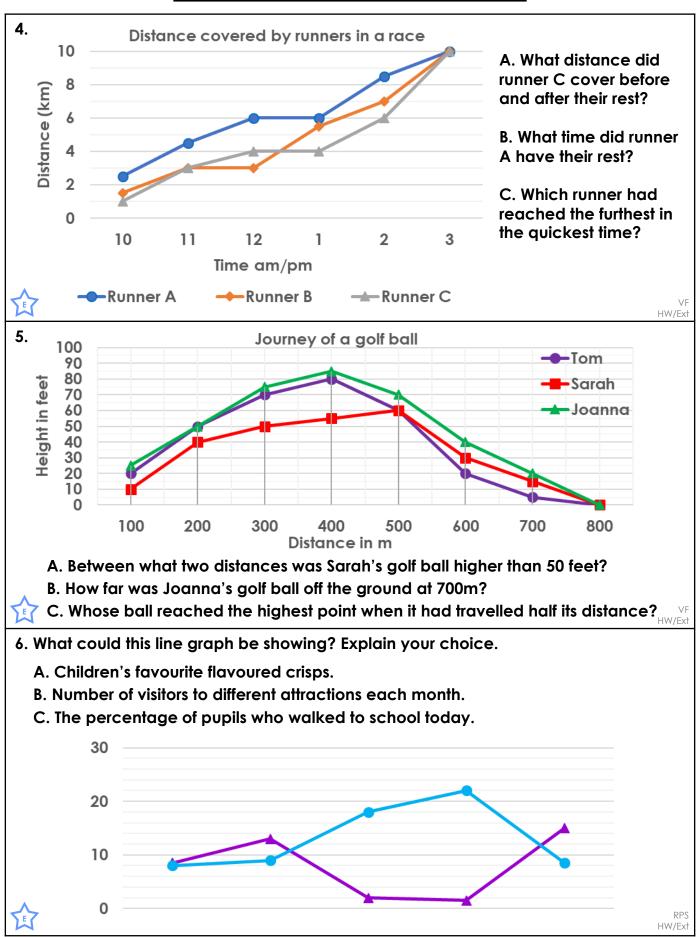
Use Line Graphs to Solve Problems





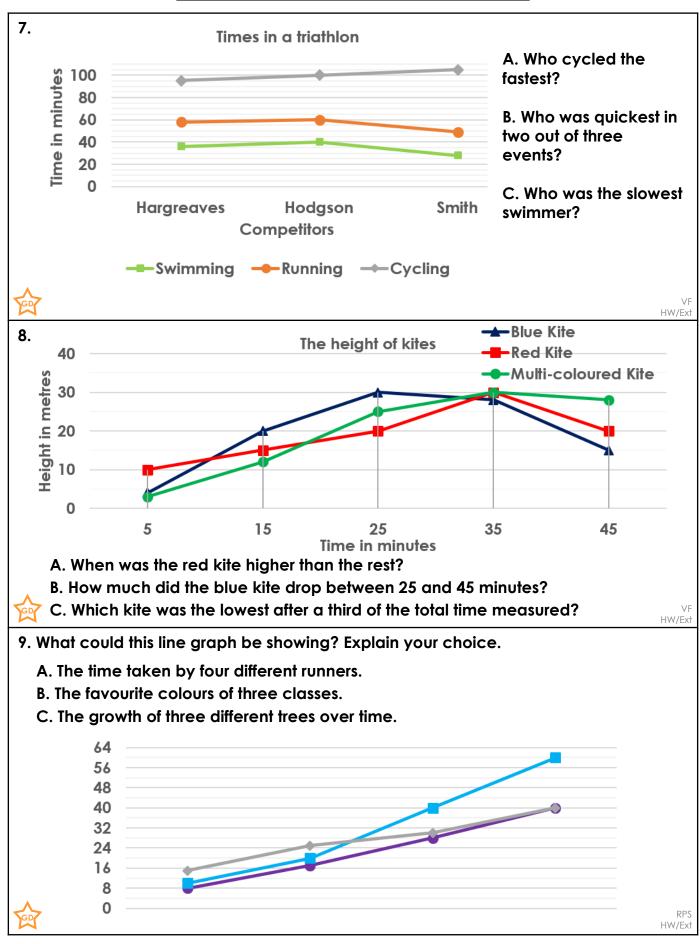
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Developing

- 1. A. 1pm; B. Daniel's shadow; C. Daniel
- 2. A. Sunflower; B. Tomato plant; C. Sunflower.
- 3. C because option A and B could both be presented as a bar chart as they are not showing something changing over a period of time.

Expected

- 4. A. 3km before; 6 km after; B. 12pm; C. Runner A
- 5. A. between 400m and 500m; B. 20 feet; C. Joanna's ball.
- 6. B because option A and C could both be presented as a bar chart as they are not showing something changing over a period of time.

Greater Depth

- 7. A. Hargreaves; B. Smith; C. Hodgson
- 8. A. 5 minutes; B. 15 metres; C. Multi-coloured kite.
- 9. C because option A has four different series and B would be presented as a bar chart as it is not showing something that changes over a period of time.

