Varied Fluency Step 4: Line Graphs

National Curriculum Objectives:

Mathematics Year 4: (4S1) <u>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</u>

Mathematics Year 4: (4S2) <u>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</u>

Differentiation:

Developing Questions to support using line graphs to solve comparison, sum and difference problems, using increments of 1 on the y axis. Using up to 5 recordings per graph.

Expected Questions to support using line graphs to solve comparison, sum and difference problems, using multiples of 2 and 10 for scale intervals, with some use of half intervals. Using up to 8 recordings per graph.

Greater Depth Questions to support using line graphs to solve comparison, sum and difference problems, using multiples of 2, 5 and 10 for scale intervals, where not all increments are marked, use of half intervals. Using up to 8 recordings per graph.

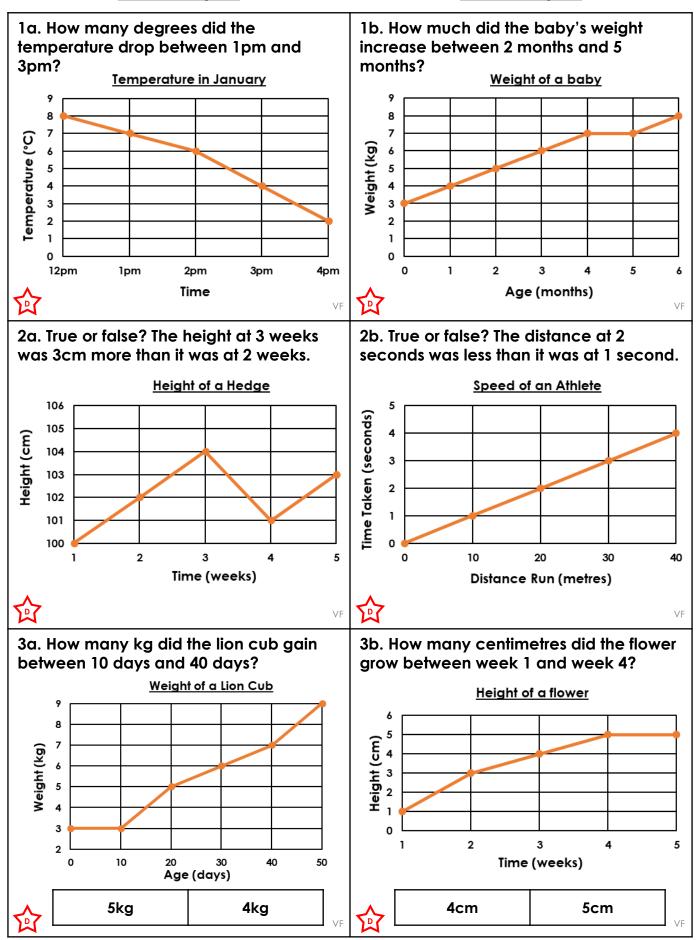
More Year 4 Statistics resources.

Did you like this resource? Don't forget to <u>review</u> it on our website.



Line Graphs

Line Graphs

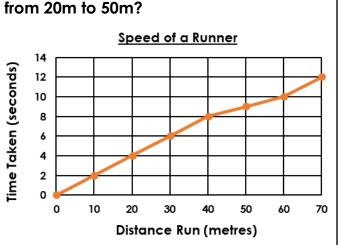




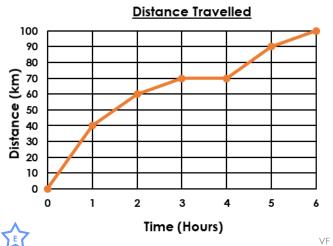
Line Graphs

4a. How many seconds did it take to run

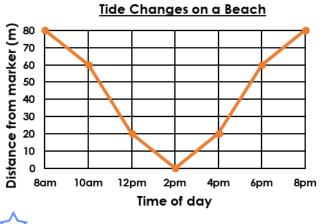
Line Graphs



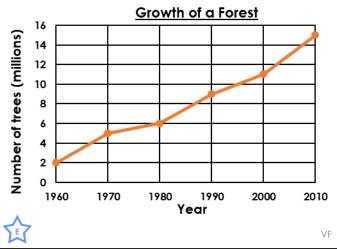
4b. How many kilometres did the boat travel between 3 and 5 hours?



5a. True or false? The distance the tide had travelled at 10am was twice what it was at 4pm.



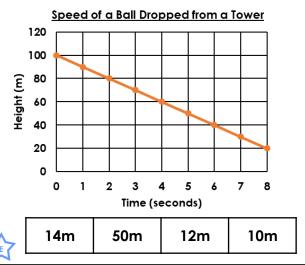
5b. True or false? The number of trees in 1990 was double the number of trees in 1960.



6a. How many kilograms did the bear lose between October and March?



6b. How many metres did the ball drop between 0 and 5 seconds?



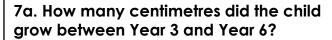
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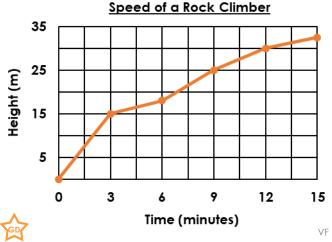
Line Graphs

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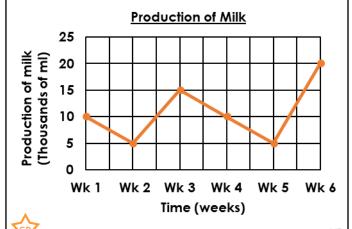




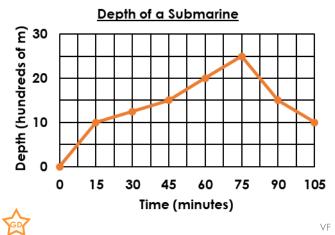
7b. How many metres did the climber travel between 3 minutes and 12 minutes?



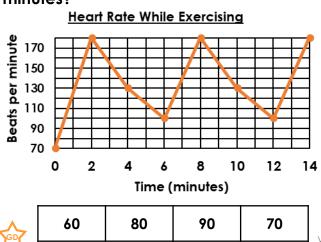
8a. True or false? The amount of milk produced in week 6 was twice what it was in week 2.



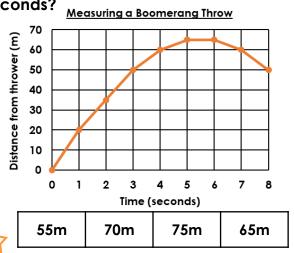
8b. True or false? The depth dived after 60 minutes was double what it was at 15 minutes.



9a. How many beats per minute did the heart reduce by between 2 and 6 minutes?



9b. How many metres did the boomerang travel between 0 and 5 seconds?



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Developing

1a. 3 degrees

2a. False; it was 2cm more at 3 weeks

than 2 weeks.

3a. 4kg

Expected

4a. 5 seconds

5a. False; it was 60km at 10am and 20km

and 4pm. 6a. 35kg

Greater Depth

7a. 19cm

8a. False; it was 20,000ml in week 6 and

5,000ml in week 2.

9a. 80 beats per minute

Developing

1b. 2kg

2b. False; the distance was greater at 2

seconds. 3b. 4cm

Expected

4b. 20km

5b. False; there were 2 million trees in 1960

and 9 million in 1990.

6b. 50m

Greater Depth

7b. 15m

8b. True

9b. 65m



