Monday – Interpret Charts

1. True or false? This pictogram has been correctly converted into a bar chart.

Class 4's Favourite Author	
RD Smith	🔵🔵
DW Jones	🟢🟢🟢🟢🟢
M Hussain	🟣🟣🟣
JK Taylor	🔴🔴🔴🔴

Key: ◯ = 2 children

Class 4's Favourite Author

Bar chart with y-axis values 0, 10, 20, 30, 40. Bars: RD Smith (blue, 20), DW Jones (green, ~48), JK Taylor (purple, 30), M Hussain (red, 40).

x-axis labels: RD Smith   DW Jones   JK Taylor   M Hussain

true ☐   false ☐

2. Ben says,

> Only 18 children got more than 21 answers correct in a minute.

Is he correct?

Class 4's Times Tables Competition

Bar chart. y-axis "Number of children" values 0, 2, 4, 6, 8, 10.
Bars:
- 0-10 (magenta): 4
- 11-20 (cyan): 6
- 21-30 (dark red): 10
- 31-40 (green): 8
- 41-50 (purple): 2

x-axis: Number of correct answers in a minute

3. Lena has used the information in the table below to make a pictogram. Do you think a pictogram is the best way to present this information? Explain your answer.

Pets	
Dogs	||||| ||||| ||||| ||||| |||||	
Cats	||||| ||||| ||||| ||||| ||||| |||
Tortoise	||||| ||||| |||||	
Fish	||||| ||||| ||||| |||||

Pets	
Dogs	🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴🔴
Cats	🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢🟢
Tortoise	🔵🔵🔵🔵🔵🔵🔵🔵🔵🔵🔵🔵🔵🔵🔵🔵
Fish	🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣🟣

Key: ◯ = 1 pet

Tuesday – Comparison, Sum and Difference

1. Calculate the totals for each set of data.

$\bigcirc$ = 10 goals

Bank holiday visitors to the Art Gallery

Days	Visitors (AM)	Visitors (PM)	Total Visitors
Friday	30	40	
Saturday	80	70	
Sunday	70	60	
Monday	20	30	

Teams	Number of Goals	Total
Foxes	⬤⬤⬤	
Owls	⬤⬤⬤⬤	
Rams	⬤⬤◗	
Stags	⬤⬤⬤⬤◗	

2. Calculate the difference between the two year groups for each subject. Write 3 questions which compare the data.

Year 3's Favourite Subjects
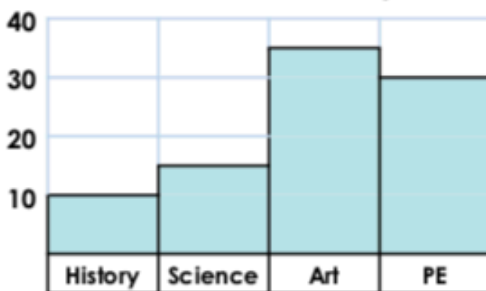
Year 4's Favourite Subjects
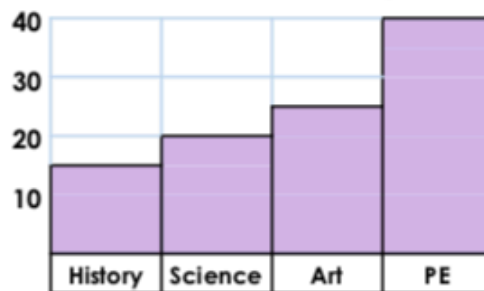
Differences	
History	
Science	
Art	
PE	

3. Compare these two sets of data. What is the same? What is different?

A Flowers counted in the local park.

Tulip	Daisy	Daffodil	Bluebell

◇ = 20 flowers

B Flowers counted on a woodland walk.
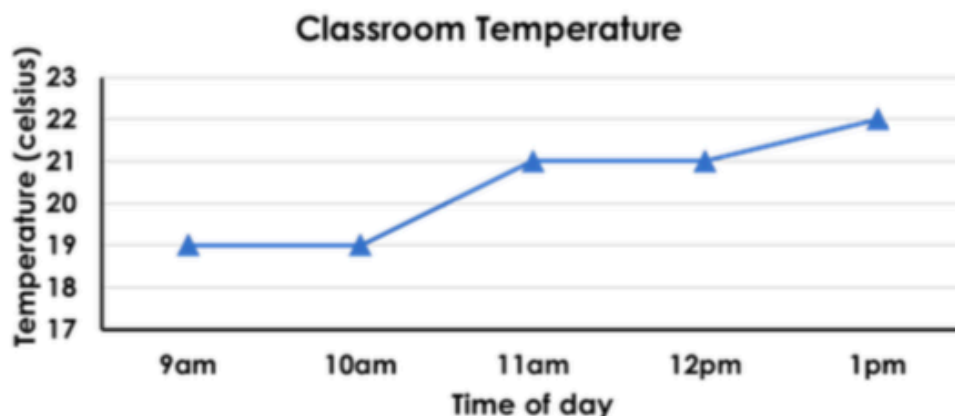
Flowers: Tulip, Daisy, Daffodil, Bluebell

Number counted: 0 20 40 60 80 100 120
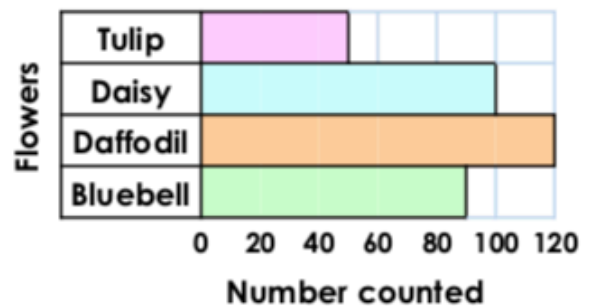
Wednesday – Introducing Line Graphs

1. Use the information in the line graph about the temperature in a classroom to fill in all the blanks in the table.
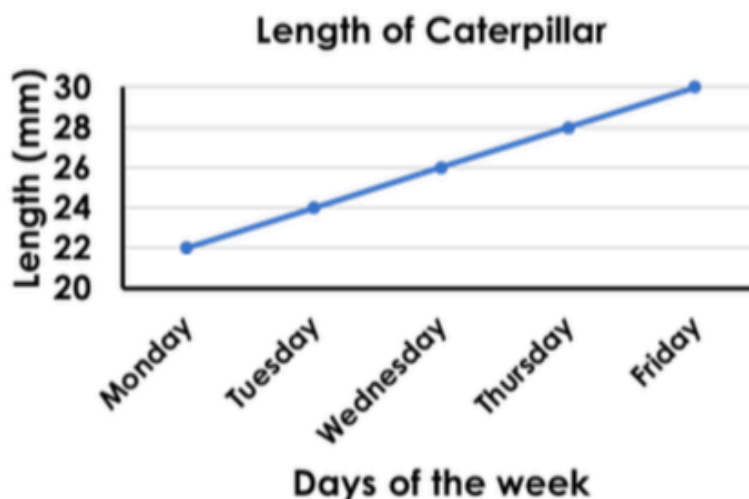
Time	Temp
9am	
10am	
11am	
12pm	
1pm	

Classroom Temperature

(Temperature (celsius) vs Time of day: 9am = 19, 10am = 19, 11am = 21, 12pm = 21, 1pm = 22)

2. A class are measuring the length of a caterpillar to see how much it grows in a week.

A. How long was the caterpillar on Wednesday?

B. How much did the caterpillar grow between Monday and Tuesday?

C. How much did the caterpillar grow in total from Monday to Friday?

Length of Caterpillar

(Length (mm) vs Days of the week: Monday = 22, Tuesday = 24, Wednesday = 26, Thursday = 28, Friday = 30)

3. Class 4 are growing cress for a science investigation. They record its height each day. Decide whether this statement is true or false: The information in this table has been correctly converted into a line graph. Explain your answer.

Day	Height
Monday	10mm
Tuesday	20mm
Wednesday	40mm
Thursday	60mm
Friday	70mm

Height of Cress

(Height (mm) vs Days of the week: Monday = 10, Tuesday = 20, Wednesday = 30, Thursday = 40, Friday = 50)
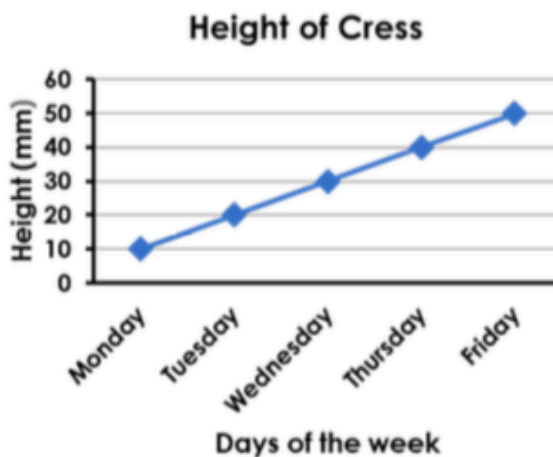
Thursday – Line Graphs

1. Use the line graph below to answer the following questions about the growth of a new born baby over 9 months.

Growth of a Baby

Length in centimetres (cm) vs Months of the Year

A. How long was the baby in April?

B. When was the baby 59cm long?

C. How many centimetres did the baby grow between March and September?

D. What was the difference between the length of the baby in May and October?

2. Tara has been timing herself in PE when running for 60 seconds. Complete the questions and answers using Tara's graph.

Running in PE

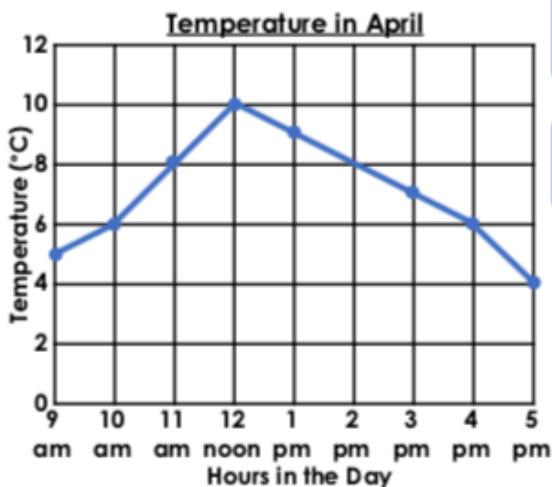Time in seconds vs Distance in metres (m)
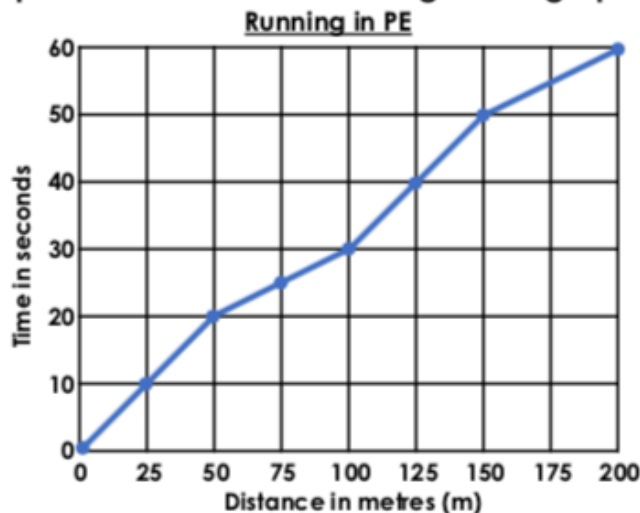
A. How much further did Tara run in the final 10 seconds than in the first 10 seconds?

B. Was Tara faster running 50 to 75 metres or 100 to 125 metres?

C.

10 seconds

3. Some children recorded the temperature in April. Which story matches the line graph below? Explain your answer.

Temperature in April

Temperature (°C) vs Hours in the Day

Max took the temperature at 9am and by 5pm it had decreased by 1 degree.

Pearl took the temperature at 9am and by 3pm it had decreased by 1 degree.

Emily took the temperature at 9am and by 1pm it had increased by 5 degrees.

Maya took the temperature at 10am and by 5pm it was 1 degree less.