

UNIT 2 · LESSON 5 ANSWER KEY

Best display for the job

Which display is best for the job?

AIMS

How confident are you now? Circle one face for each aim at the end of the lesson.

Content Compare displays.
Choose the best one for the job.



Language Comparison language: more suitable, whereas.



Skills Choose a display and give a reason.



Write: Compare the displays

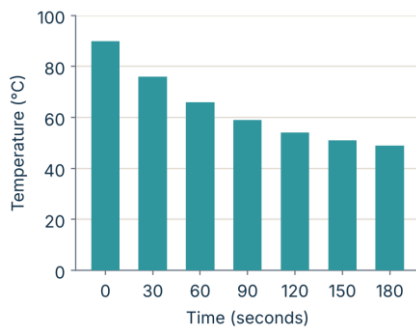
Look at three displays of the same data. What is easy to see, and what is hard to see?

Teacher: Accept any reasonable answer. Suggested answers are shown.

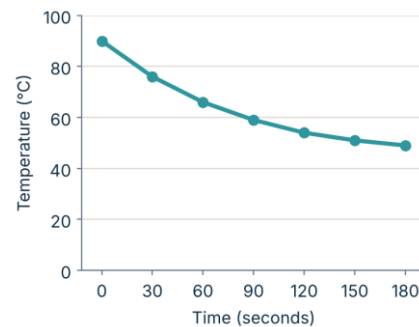
Hot water cooling: temperature every 30 seconds

Time (s)	0	30	60	90	120	150	180
Temp (°C)	90	76	66	59	54	51	49

Bar chart



Line graph



DISPLAY	EASY TO SEE	HARD TO SEE
Table	exact numbers	the pattern at a glance
Bar chart	which amount is biggest	exact numbers
Line graph	change over time	exact numbers
Pie chart	the biggest share; parts of a whole	exact numbers; small differences; change over time

For the pie chart, use the electricity chart on the slide.



Think: Choose the best display

Tick every display that could work for each job. Then star the best one.

Teacher: Other answers are fine if the reason is clear.

JOB	TABLE	BAR CHART	LINE GRAPH	PIE CHART
1 Show how a city's population changed from 1950 to 2020.	✓	✓	★	X
2 Read the exact temperature at 60 seconds.	★	✓	✓	X
3 Show what share of a country's land is forest, farmland and cities.	✓	✓	X	★
4 Compare the heights of five mountains.	✓	★	X	X

★ best ✓ possible X not suitable

REMEMBER Four displays, four jobs.

table exact numbers	bar chart compare amounts	line graph change over time	pie chart parts of a whole
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Choose two jobs. Write a sentence for each to say why your star is best.

Suggested answers: For job 1, the line graph is best because it shows change over time.

For job 3, the pie chart is best because it shows parts of a whole.



Write: Build the comparison sentences

Complete the three sentences. Then write one comparison sentence of your own.

Teacher: Sentence 3: accept the first two in either order.

KEY LANGUAGE Use these phrases to compare displays and give a reason.

SAME

Both the ___ and the ___ show...

DIFFERENT

Unlike the pie chart, the line graph...

COMPARE

The ___ is better for showing ___, whereas the ___ is better for showing ___.

LIMIT

However, the ___ is not as good for...

REASON

The ___ is more suitable because...

PURPOSE

The best display depends on the question.

WORD BANK table · bar chart · line graph · pie chart

- 1** The table is better for showing exact numbers, whereas the line graph is better for showing change over time.
- 2** The pie chart is better for showing parts of a whole, whereas the bar chart is better for comparing amounts.
- 3** Both the bar chart and the line graph show the same data. However, only the table gives exact numbers.

4 Write one more comparison sentence of your own.

Suggested answer: Students' own answers. The display must really do that job, e.g. The pie chart is more suitable than the line graph for showing parts of a whole.

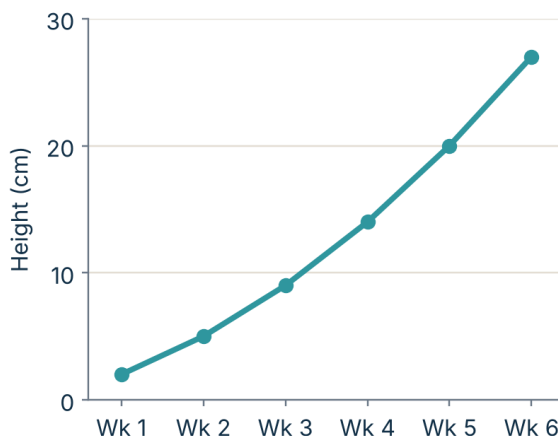


Read: A model answer

Read the model. Sentence 1 answers the question. Sentences 2 and 3 give the reason.

PURPOSE A scientist wants to show how a bean plant's height changed over six weeks.

Bean plant height (cm) over six weeks



1 POSITION

The best display for showing how the height changed over six weeks is the line graph.

2 COMPARE

It is better for showing change over time, whereas the table is better for exact heights.

3 REASON

This is more suitable because the line shows the plant growing at a glance.

Key idea: answer the question first. Then compare the displays and give your reason.

REMEMBER Read the key words. Write each word in your own language.

Teacher: The last column is for learners' own language.

	MEANING	IN MY LANGUAGE
compare	find what is the same and different	
contrast	show what is different	
justify	give a reason for your choice	
represent	show information in a graph	
appropriate	right for the purpose	



Independent task

Choose the best display for each purpose. Write 2–3 sentences for each. Give a reason.

Teacher: Students' own answers are possible. Purpose 1: pie chart. Purpose 2: bar chart. Each needs the display, the job and a reason.

Purpose 1: land use in a country (%)

Use	Share (%)
Farms	45
Forest	30
Cities	10
Other	15

Purpose 2: population of five cities (millions)

City	Millions
City A	8
City B	12
City C	5
City D	21
City E	14

table exact numbers	bar chart compare	line graph change over time	pie chart parts of a whole
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1 Purpose 1 Show what share of a country's land is farms, forest, cities and other uses.

The best display is the pie chart. It is better for showing parts of a whole, whereas the bar chart is better for comparing amounts. It is more suitable because the question asks for each share of the land.

2 Purpose 2 Compare the populations of the five cities.

The best display is the bar chart. It is better for comparing amounts, whereas the pie chart is better for parts of a whole. It is more suitable because we want to see which city is biggest.

STRETCH Draw the data for each purpose in the display you chose.

PURPOSE 1

Pie chart: title, labels, slices of 45, 30, 10 and 15 (total 100%).

PURPOSE 2

Bar chart: title, labels, five bars: 8, 12, 5, 21 and 14.