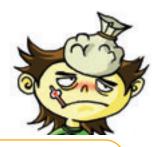
Statistics: Book Two, Level 4+





You need: a computer

Mrs McKenzie is the principal of her school. She is concerned about the number of students absent during winter. She checks the register of one of her year 8 classes for a 4 week period. This is what she finds. (Each "a" represents a half-day absence.)

Name	Week 3	Week 4	Week 5	Week 6
Algar, Vince	XXXX®	XXXX <sup>®</sup>	XXXX	XXXX
Baker, Kellie	$^{\circ}$ $^{\circ}$ $\times$ $\times$ $\times$	$\times \times \times \times \times$	$\times$ $^{\circ}$ $\times$ $\times$ $\times$	$\times \times ^{\circ} \times \times$
Cook, Candice	XXXXX	aaaaaa	$\times \times \times \times \times$	$\times \times \times \times \times$
Dimes, Alisha	$A \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$
Eyles, Francesca	$\times \times \ \ \ \times \times \times$	$\times \times \times \times \times$	$\times \times $ $^{\circ} \times \times$	$\times$ $^{\circ}$ $\times$ $\times$ $\times$
Falua, Georgia	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$
Gard, Josh	a a a XX	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$
Harris, Alyssa	$\times \times \times \times \times$	$\times \times \times \times \times$	$^{\circ} \times \times \times ^{\circ}$	$\times \times \times \times \times$
Iva, Sean	$\times \times \times \times $	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \infty$
Knapp, Heidi	$\times \times \times \times \times$	$\times \times \times \times \times$	a X /a a a	$^{\circ} \times \times \times \times$
Lamb, Nathan	$\times \times $ $^{\circ} \times \times$	$\times \times \times $ $^{\circ}a$ $^{\circ}a$	$\times \times \times \times \times$	$\times \times \times \times \times$
Manu, Paul	$\times \times \times \times $	$a \times \times \times \times$	°a °a ×××	$^{\circ} \times \times \times \times$
Norris, Thomas	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \ \ \ \times \times \times$	$\times \times \times \times \times$
Oates, Cameron	$\times \times \times$ /a /a	$\times \times \times \times \land$	$\times \times \times \times \land$	$\times \times \times \times \land$
Parke, Mikey	$\times \times \times \times \times$	$\times \times \times {}^{a}$	$a \propto \times \times \times$	$\times \times \times \times \times$
Reyes, Nick	$\times \times \times $ $^{\circ}a$ $^{\circ}a$	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times$ $^{\circ}$ $\times$ $\times$ $\times$
Scott, Aidan	aaaaaaa	°a °a ×××	$\times \times \times \times \times$	$\times \times \times \times \times$
Taylor, Damian	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$	$a \times \times a \times$
Toye, Jeremy	$\times$ $^{\circ}$ $\times$ $\times$ $\times$ $\times$	$\times$ $^{\circ}$ $^{\circ}$ $\times$ $\times$	$\times \times \times \times \times$	$\times \times \times \times $
Urry, Samantha	$\times \times \times \times \times$	$\times \times \times \times \times$	/a /a /a××	$\times \times $ × × ×
Valli, Bernice	$\times \times \times $ $^{\circ} \times$	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$
Ward, Melina	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$
White, Angela	$\times \times \times \times \times$	$\times \times \times \times \times$	$\times \times \times \times \times$	a a a a a a

1. How many days was Heidi Knapp absent?

- **2. a.** Count the total absences for each student over the 4 week period.
  - **b.** Enter this information into a spreadsheet and use it to create a bar graph with the bars arranged in order of total days absent.
- a. Count the total number of absences each day (for example, 3.5 on the Monday of week 3).
  - **b.** Enter this information into a spreadsheet and use it to create a time-series graph showing daily absences over the 4 weeks.
- 4. Study your two graphs carefully. Do you think Mrs McKenzie needs to be concerned about the absenteeism in her school? Explain.