

Information



Common core icons



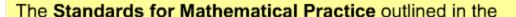
This icon indicates a slide where the Standards for Mathematical Practice are being developed. Details of these are given in the Notes field.



Slides containing examples of mathematical modeling are marked with this stamp.



This icon indicates an opportunity for discussion or group work.



Common Core State Standards for Mathematics describe varieties of expertise that mathematics educators at all levels should seek to develop in their students.

These are:

- 1) Make sense of problems and persevere in solving them.
- 2) Reason abstractly and quantitatively.
- 3) Construct viable arguments and critique the reasoning of others.
- 4) Model with mathematics.
- 5) Use appropriate tools strategically.
- 6) Attend to precision.
- 7) Look for and make use of structure.
- 8) Look for and express regularity in repeated reasoning.



This icon indicates that the slide contains activities created in Flash. These activities are not editable.



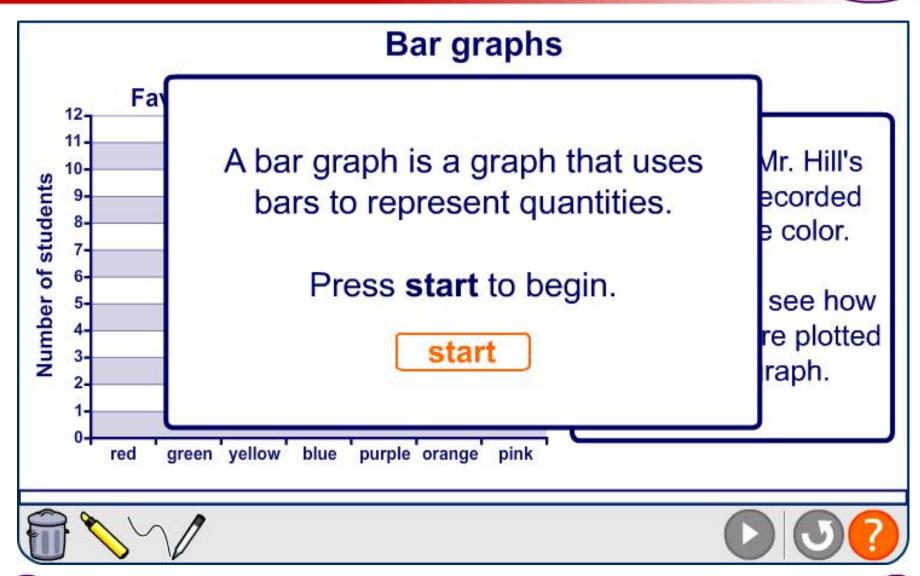
This icon indicates teacher's notes in the Notes field.



2 of 10 —

Bar graphs



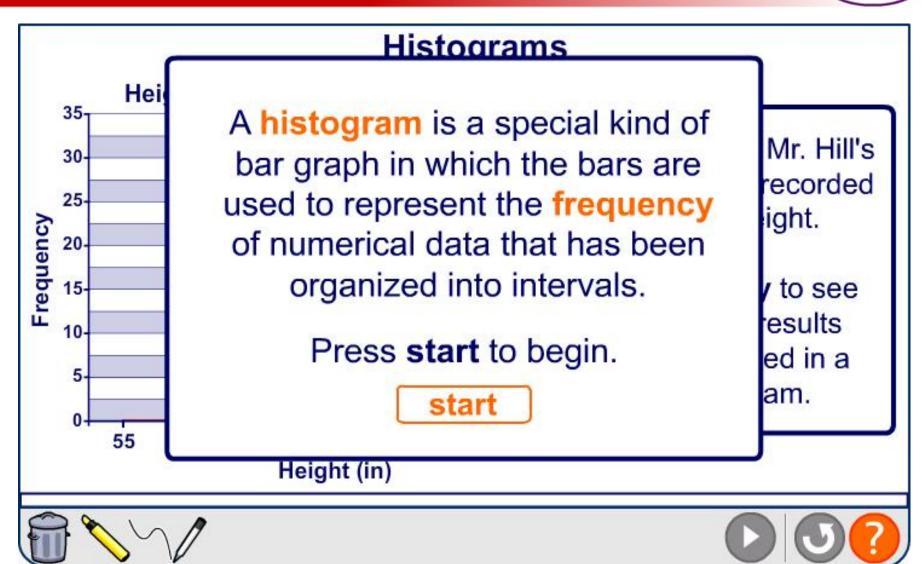






Introducing histograms



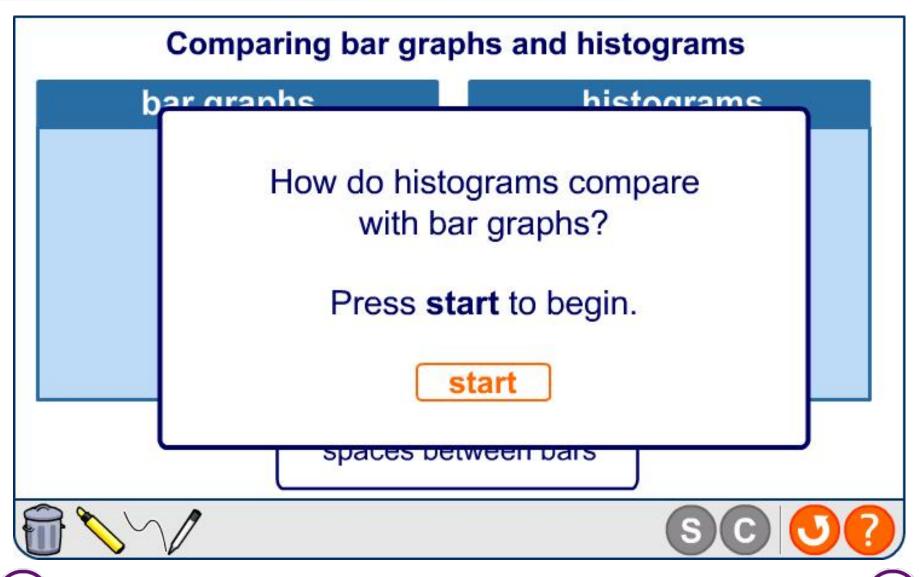






Histograms and bar graphs







Making a histogram



Making a histogram

Some sixth grade students have been training for a 200 m race. The results of their time trials are recorded below in seconds. Display this data in a histogram.

time trial results (seconds)									
34.5	32.7	33.1	30.2	33.1	32.6	34.9	32.8		
35.8	32.2	32.2	34.1	34.4	33.5	33.9	34.0		
34.9	33.3	33.6	34.2	31.5	31.4	31.9	35.2		









Drawing histograms



Use the data in the table to complete the histogram showing the time students spent watching TV.

Time spent (hours and minutes)	Freq.	
0 – 59 min	4	
1 hr – 1hr 59 min	6	
2 hr – 2 hr 59 min	8	
3 hr – 3 hr 59 min	5	
4 hr – 4 hr 59 min	3	
5 hr – 5 hr 59 min	1	







7 of 10 ______ © Boardworks 2012

Heights of basketball players



The following data gives the heights of 30 high school basketball players in inches.

Create a frequency table and histogram for the heights of the basketball players.



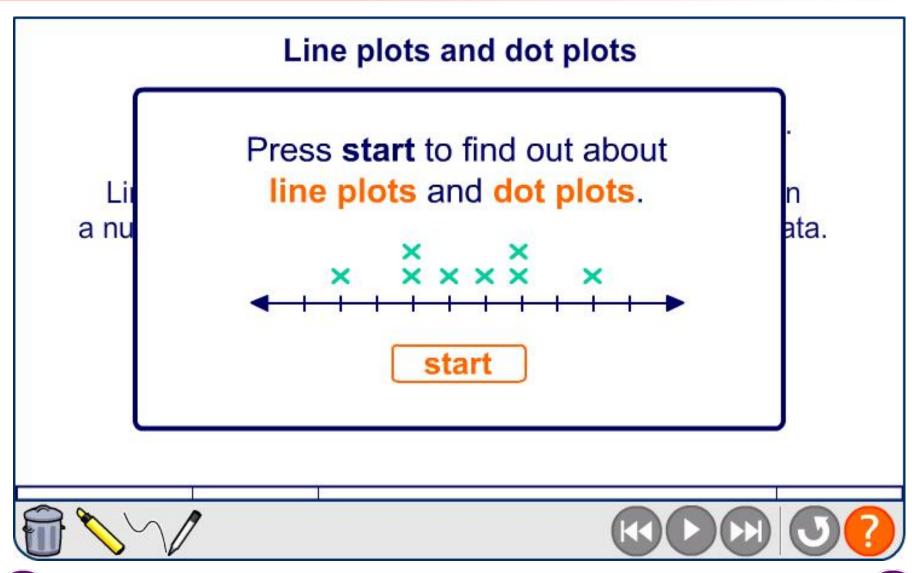
height of basketball players (in)									
75	76	74	70	73	74	67	77	76	75
72	75	76	74	76	78	75	79	81	76
78	75	75	76	80	73	75	76	82	73





Line plot









Dot plots



