

NCTM Process Standards Rubric

Data Analysis & Probability – Drill Sheets

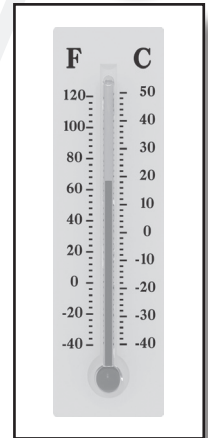
Drills	Expectations				
	GOAL 1: Problem Solving	GOAL 2: Reasoning & Proof	GOAL 3: Communication	GOAL 4: Connections	GOAL 5: Representation
Warm-up 1	✓	✓	✓	✓	✓
Timed Drill 1	✓	✓	✓	✓	✓
Timed Drill 2	✓	✓	✓	✓	✓
Warm-up 2	✓	✓	✓	✓	✓
Timed Drill 3	✓	✓	✓	✓	✓
Timed Drill 4	✓	✓	✓	✓	✓
Warm-up 3	✓	✓	✓	✓	✓
Timed Drill 5	✓	✓	✓	✓	✓
Timed Drill 6	✓	✓	✓	✓	✓
Warm-up 4	✓	✓	✓	✓	✓
Timed Drill 7	✓	✓	✓	✓	✓
Timed Drill 8	✓	✓	✓	✓	✓
Warm-up 5	✓	✓	✓	✓	✓
Timed Drill 9	✓	✓	✓	✓	✓
Warm-up 6	✓	✓	✓	✓	✓
Timed Drill 10	✓	✓	✓	✓	✓
Timed Drill 11	✓	✓	✓	✓	✓
Review A	✓	✓	✓	✓	✓
Review B	✓	✓	✓	✓	✓
Review C	✓	✓	✓	✓	✓

SAMPLE

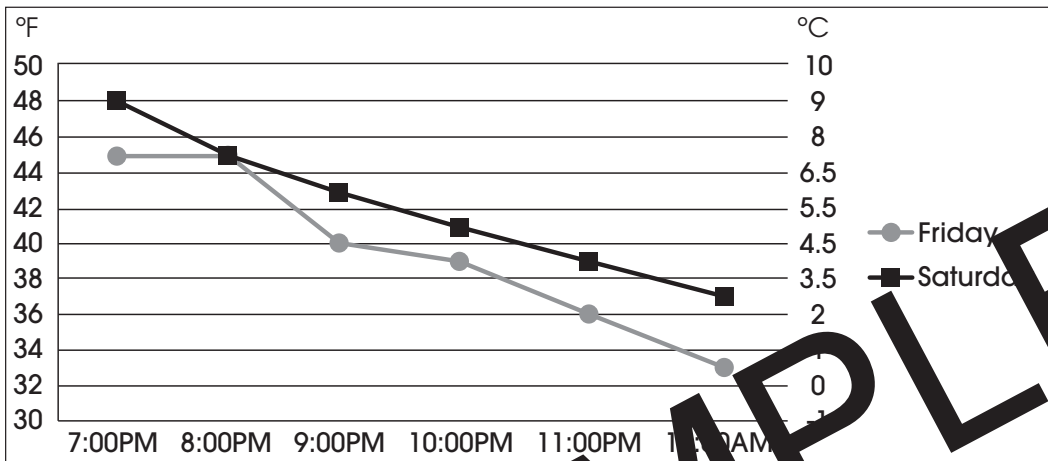


9a) The thermograph sheet below shows how temperature changed during a six hour period for two days.

Ex: What is the pattern in temperature drop on Friday between 10:00 pm and 12:00 am? Drops 3°F (2°C) each hour



Nighttime Temperatures

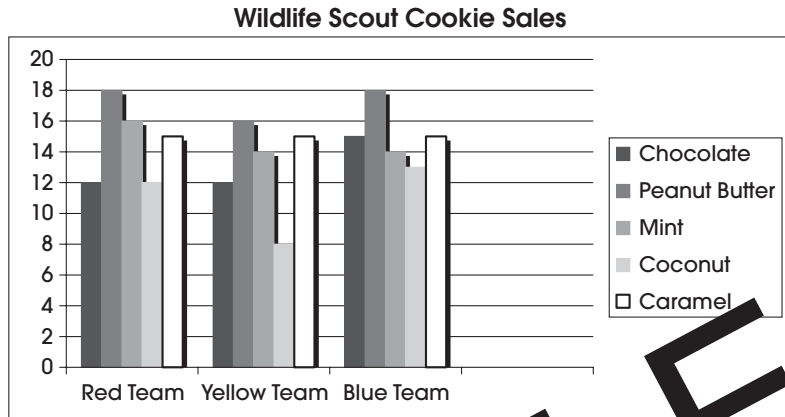


- i) Which day had the warmest temperature between 7:00 PM and 12:00 AM? _____
- ii) Which day had the coldest temperature between 7:00 PM and 12:00 AM? _____
- iii) What temperature was recorded at 9:00 PM on Friday? _____
- iv) What temperature was recorded at 11:00 PM on Saturday? _____
- v) What time on both days was the same temperature recorded? _____
- vi) The temperature on Friday at 10:00 PM was the same as the temperature on Saturday at what time? _____
- vii) How much did the temperature drop on Friday from 7:00 PM to 12:00 AM? _____
- viii) How much did the temperature drop on Saturday from 7:00 PM to 12:00 AM? _____
- ix) What was the average drop between the two days? _____
- x) On which day did the temperature dip to 36°F (2°C)? _____
- xi) What was the difference in temperature at 10:00 PM between Saturday and Friday? _____
- xii) The biggest drop in temperature on Friday happened between what hours? _____
- xiii) The biggest drop in temperature on Saturday happened between what hours? _____
- xiv) Which day saw the temperature go closest to the freezing point? _____
- xv) On Saturday between 7:00 PM and 10:00 PM, the temperature dropped how many degrees? _____
- xvi) What is the pattern in temperature drop on Saturday between 8:00 PM and 12:00 AM? _____



Review C

a) The following column chart shows the number of boxes of each type of cookie sold for three different groups at the Wildlife Scout cookie sale.



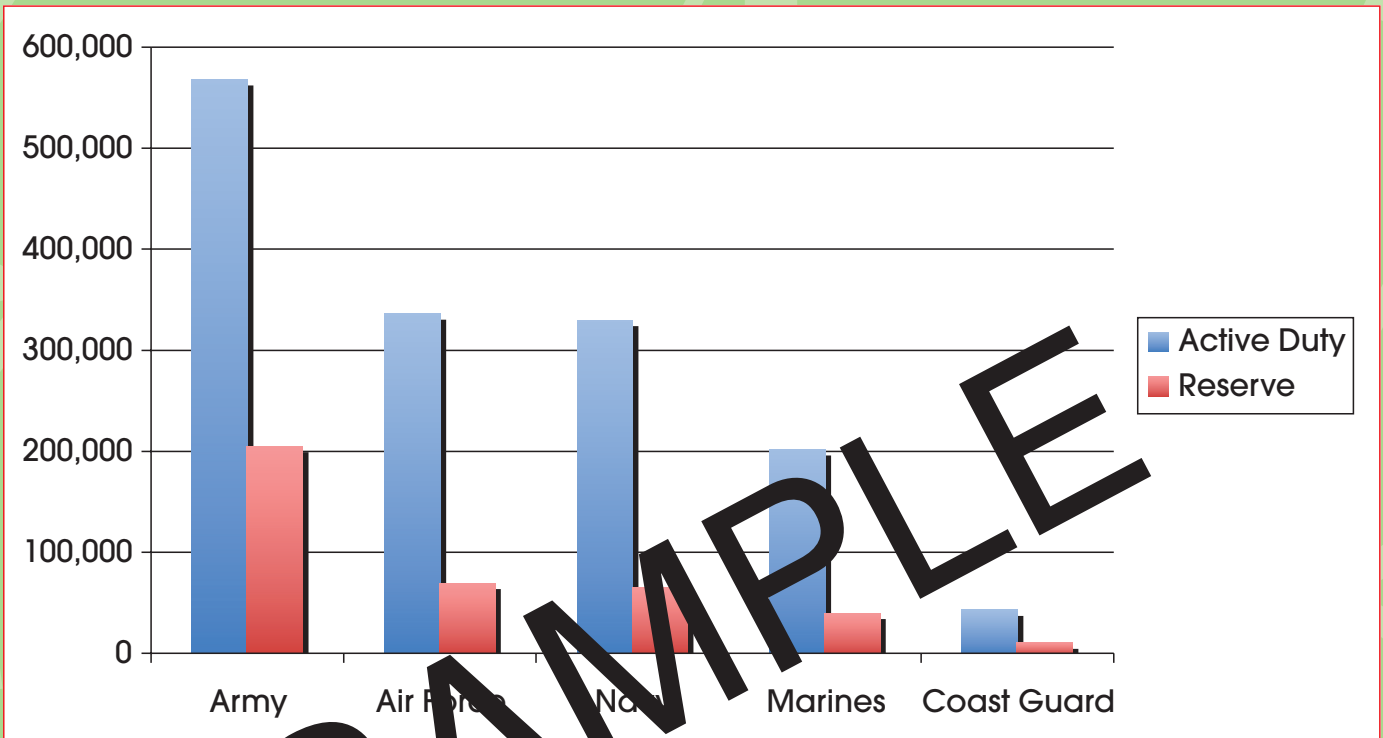
- i) How many total cookie sales did the Red Team have? _____
- ii) How many total cookie sales did the Yellow Team have? _____
- iii) How many total cookie sales did the Blue Team have? _____
- iv) Forty percent of the cookie sales for the Blue Team were for which two cookies? _____
- v) Thirty four cookie sales for the Red Team were which two varieties? _____
- vi) The Yellow Team had twice as many Peanut Butter cookie sales as sales of which cookie? _____
- vii) The Yellow Team and Red Team both had 12 of which cookie sales? _____
- viii) The three teams had equal sales for which type of cookie? _____
- ix) The Red Team had an equal number of which cookies sold? _____
- x) The Blue Team has a 1:1 ratio in which two cookie sales? _____
- xi) What is the ratio in Mint Cookie sales between the Yellow Team and Blue Team? _____
- xii) Twenty percent more of which cookies were sold by the Red Team than Caramel cookies? _____
- xiii) Which team had the smallest number of sales for one type of cookie? _____
- xiv) What is the ratio of Peanut Butter sales to Chocolate sales for the red team? _____
- xv) There is one less total sales of which cookies than there were total sales of Caramel cookies for all three teams? _____
- xvi) What is the average number of Chocolate cookie sales for all three teams? _____

SAMPLE

Ordering



The graph below shows the size of the U.S. military forces. Working with a partner or in a small group, use this graph to complete the activity.



a) List the armed forces active duty sizes from least to greatest.

b) List the armed forces reserved sizes from least to greatest.

c) List three comparisons that can be drawn between the armed forces.

d) List four conclusions that can be drawn from this data.
