

Math 304

Final Study Guide

Chapter 10 - Statistics

- Identify the kinds of information that a given type of graph is good for depicting. see table 10.8 on p. 425
- Identify misleading characteristics of graphs
- Identify the population, sample, bias in the gathering of statistics

Try Chapter Review 10.2 # 6 p.478, 10.3 #4

Make up a set of data with four values with a mean of 11 and a midrange of 12.

Hint what must the sum be? One possible solution is (8, 9, 11, 16)

Chapter 11 Probability

- List the sample space, calculate the probability and odds of an event.
- Find the expected value of an event
- Determine the number of combinations or permutations

Try Chapter Review 11.1 #1 on p. 541, 11.2 #3, 4 on p. 542, 11.3 #1, 6 on p. 542, 11.4 #1, 2, 5 on p. 543

Chapter 12 Geometry

- Describe Van Heile's levels of geometric development
- Identify Line/reflection and Rotational Symmetry
- Determine Polygon interior, exterior and central angles
- Explain Tessellations characteristics

Try Chapter Rev 12.1 #1 on p. 614, 12.2 #1 on p. 614, 12.3 #2, 3 on p. 615, 12.4 #1-4 ON P. 615

Chapter 13 -Measurement

- Know the conversions within the Metric System; length, area, and volume within the English System
- Know the area equations of common polygons and circles

End of Chapter Material - Additional Problems p. 686 #1-3

- Temperature conversion between degrees Celsius and degrees Fahrenheit

Sec 13.1 Review #7 on p. 688, *Writing/Discussion #10* on top of p. 690 (solution on last page)

- Know and apply the Triangle Property of inequality

Sec 13.2 Review p. 688 #3 & 4

- Find the volume of and surface area of solids.

Chapter Test #10, 12, 13, on pp. 690-691

Chapter 14-

- Prove Triangles are congruent and Similar
- Use properties of similarity to find missing lengths.

Chapter Review Sec 14.1 #3 on p. 750 14.2 #3 on p. 750

Besides working the problems above do review your guided notes and past quizzes and tests as a good way to prepare for the final

Bring your Tangrams, calculator, pencil, and a fresh mind to the final.

Solution

Writing/Discussion #10 on top of p. 690

Jeffery is not correct that 82° F is twice as warm as 41° F, because Fahrenheit temperature has a relative 0° . If those temperatures were converted to Celsius they would be $(82 - 32)/1.8 = 27.8^{\circ}$ C and $(41 - 32)/1.8 = 5^{\circ}$ C.