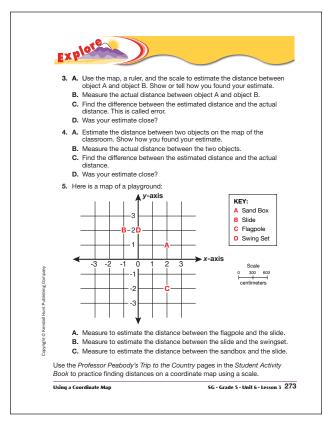
Student Guide

Using a Coordinate Map (SG pp. 272–273) Questions 1–5

- **1.***Answers will vary. See Figure 2 in the lesson for a sample table.
- **2.***Answers will vary. See Figure 3 in the lesson for a sample map.
- **3.***Answers will vary.
- 4. A.*Answers will vary.B.*Answers will vary.C.*Answers will vary.
- 5. A. 5 cm; 5 × 300 = 1500 cm
 B. 1 cm; 1 × 300 = 300 cm
 C. 3 cm; 3 × 300 = 900 cm

 You and your classmates winclassroom or your playgrour to be mapped. Your teacher The class or your teacher wind mapped. Each object should 	II use Mr. Origin nd. First, place M may have place II choose some	to help make a Ir. Origin somev d Mr. Origin for objects in the cl	vhere in the area you. assroom to be
 Work with your class to find the center of each object yo Objects in Room page nearest centimeter. Make a coordinate grid to map the location of each 	u are assigned. a from the Stude	Record the dista	ances on the
object. Use Centimeter Grid Paper. Look at your data points.	Object	x-coordinate in cm	y-coordinate in cm
Decide where you need to draw and how to scale the	Α.		
coordinate axes so that all the points will fit.	В.		
 Label the x-axis and y-axis. 	с.		
 Plot and label a point on the map for each object. 	D.		
	Е.		
	F	h	

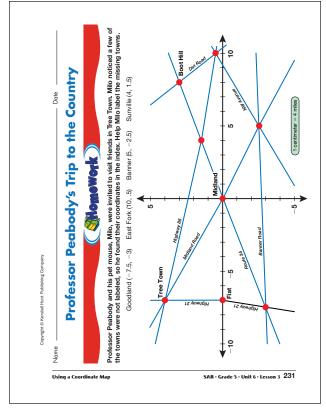
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*Answers and/or discussion are included in the lesson.

I



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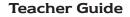
Professor Peabody's Trip to the Country (SAB pp. 231–234) Homework

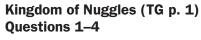
Questions 1–4

- **I.** About 32 miles; $8 \text{ cm} \times 4 \text{ cm/mile} = 32 \text{ cm}$
- 2. A. Professor Peabody could go from Midland to East Fork through Sunville: About 42 miles; $10.5 \text{ cm} \times 4 \text{ cm/mile} = 42 \text{ miles}$ or he could go through Banner: $11 \text{ cm} \times 4 \text{ cm/mile} = 44 \text{ cm/mile}.$ It is shorter to go through Sunville.
 - **B.** It is 2 miles shorter to go through Sunville.
- About 152 miles;
 From Goodland to Banner: About 12.5 cm;
 from Banner to East Fork: About 6 cm;
 from East Fork to Tree Town: 17.5 cm;
 17.5 + 6 cm + 12.5 cm = 36 cm;
 36 cm × 4 cm/mile = 144 miles
- **4.** The distance from Banner to Treetown is longer. I measured each distance on the map. Banner to Tree Town is about 13.5 cm and from Goodland to Sunville is about 12.5 cm.

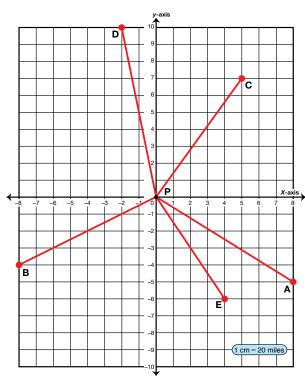


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I-2.



- **3. A.** About 190 miles; $9.5 \text{ cm} \times 20 \text{ cm/mile} = 190 \text{ miles}$
 - **B.** About 180 miles; $9 \text{ cm} \times 20 \text{ cm/mile} = 180 \text{ miles}$
 - **C.** About 170 miles: $8.5 \text{ cm} \times 20 \text{ cm/mile} = 170 \text{ miles}$
 - **D.** About 200 miles; $10 \text{ cm} \times 20 \text{ cm/mile} = 200 \text{ miles}$
 - E. About 140 miles; $7 \text{ cm} \times 20 \text{ cm/mile} = 140 \text{ miles}$
 - **F.** About 7 cm \times 20 cm/mile = 140 miles
- **4.** 17 hours; 170 miles per hour divided by 10 miles per hour = 17 hours

e		[ite
	Kingd	om of Nug	gles
	lyskins lives in the King each town in the Kingo		ants to build roads from his
	w a map of the cities in per on the Map of the K		
	Towns in the King	dom of Nuggles	
	City	Coordinates	
	Adamville	(8, -5)	
	Bradytown	(-8, -4)	
;.	Candyville	(5, 7)	
) .	Dodge City	(-2, 10)	
	Evermore	(4, -6)	
Kin A. 3. 5. 5.	g's Palace and each to Adamville Bradytown Candyville Dodge City Evermore Show or tell how you	wn. Include units. u solved Questions 3E	
	g Bradyskin's horse an it take him to travel to		miles per hour. How long

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