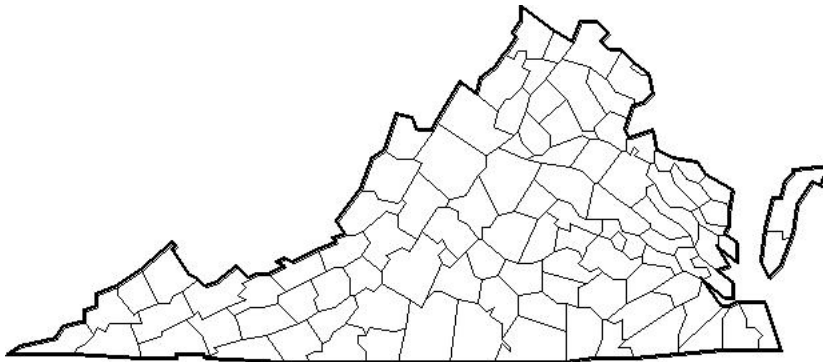


TESTS FOR HIGHER STANDARDS

MATHEMATICS

2009 Standards



SIMULATION TEST

Grade 5

**Dr. S. Stuart Flanagan, Professor Emeritus
College of William and Mary**

Copyright 1999-2011, S. Stuart Flanagan and David E. W. Mott
Do not reproduce without permission. 7-1-11

NO CALCULATORS

5.5b

12. The weight of a chemical sample and its container is 60.22 grams. The weight of the container has a weight of 35.008 grams. What is the weight of the sample?

- F** 25.112 g
- G** 25.202 g
- H** 25.212 g
- J** 25.222 g

5.5b

13. The chart shows the average speed of 4 boats on a trip across a large lake. What is the difference between the average speed of the fastest boat and the average speed of the slowest boat?

AVERAGE SPEED

Boat	Speed (miles per hour)
A	29.8
B	41.2
C	36.5
D	27.6

- A** 2.2 mph
- B** 13.6 mph
- C** 18.6 mph
- D** 24.6 mph

5.8e

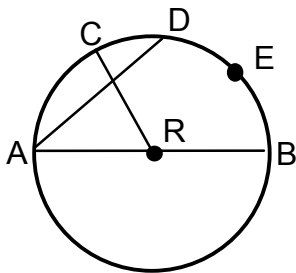
30. Esteban has a bag of marbles. Which is the best estimate of the mass of the bag of marbles?



- F** 50 kilograms
- G** 50 liters
- H** 50 grams
- J** 50 milliliters

5.9

31. Identify each radius shown.



- A** \overline{RA} \overline{RC} \overline{RB}
- B** \overline{AB}
- C** \overline{AC} \overline{CD} \overline{DE} \overline{EB}
- D** \overline{RC}

5.16b

47. Which of the following bests describes the mean of a set of data?

- A** The mean is the middle value of a set of data.
- B** The mean is found by adding all the values in the set of data.
- C** The mean represents the concept of "fair share".
- D** The mean is the number that occurs most often in a set of data.

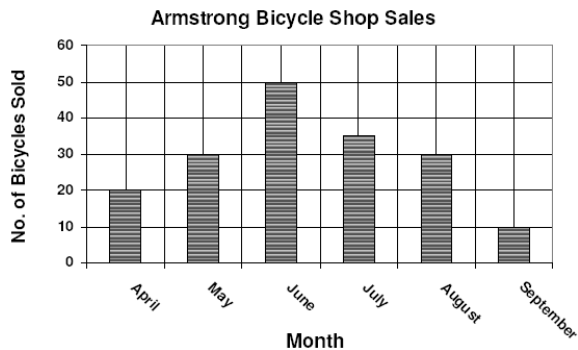
5.16c

48. Baleigh swims every afternoon. She swims 30 minutes on Monday, 25 minutes on Tuesday, 40 minutes on Wednesday, 30 minutes on Thursday, and 35 minutes on Friday. Over the five days, what is the mean number of minutes per day Baleigh swims?

- F** 30
- G** 32
- H** 38
- J** 40

5.16c

49. The graph shows the bicycle sales of Armstrong Bicycle Shop for a 6-month period, April through September.



What was the range for the monthly bicycle sales for the 6-month period from April through September?

- A** 10
- B** 15
- C** 30
- D** 40