معهد التكنولوجيا التطبيقية
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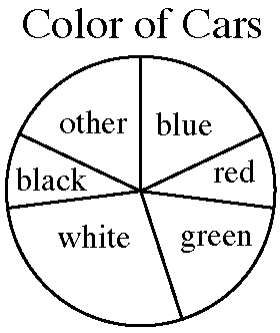
SAT Focused Practice Worksheet 3- Statistics – Circle Graph-Mode-Mean-Range-

Multiple Choice
Identify the choice that best completes the statement or answers the question.

____ 1. Jacob's math class recorded the color of each car in the teachers' parking lot. The results are shown in the circle graph below. What was the mode color of the cars?



a. white
b. black
c. red
d. blue
e. green

____ 2. The selling prices for the last 5 houses sold in Tanya's neighborhood were $120,500, $129,000, $122,000, $120,500, and $128,000. What is the mode of these selling prices?

a. $124,000
b. $120,500
c. $128,000
d. $125,000
e. $122,000

____ 3. Rachel completed her first three math tests with an average (arithmetic mean) score of 72. After the fourth test, her average was 78. What was her score on the fourth test?

a. 86
b. 72
c. 96
d. 90
e. 78

____ 4. Which set has the smallest range?

a. {100, 99, 100, 100}
b. {–3, 0, –3, –1}
c. {2, 10, 7, 6, 1}
d. {4, –2, 0, 1, 6}
e. {–100, –101, –98}

____ 5. The table below shows Shannon's yearly income form 1994 to 1998. Based on the table, what would you expect Shannon's income to be in the year 2001?

Year	1994	1995	1996	1997	1998
Income ($)	17,500	19,000	20,500	22,000	23,500

a. $26,500
b. $28,500
c. $25,000
d. $29,500
e. $28,000

____ 6. The chart below shows the number of hours worked by Marcus and Joelle last week. Marcus is paid $6.25 per hour and Joelle is paid $7.75 per hour. How much more did Joelle earn than Marcus?

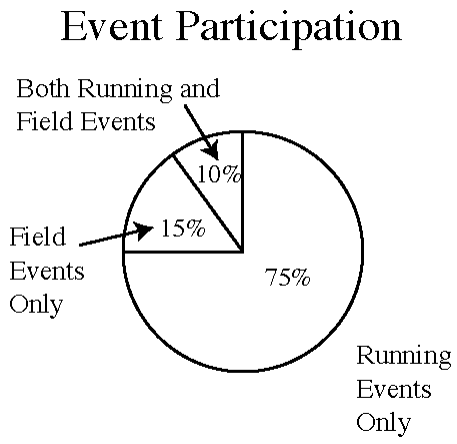
Hours Worked Last Week					
Name	M	T	W	TH	F
Marcus	6	0	6	7	8
Joelle	5	6	7	7	0

a. $12.50
b. $25
c. $27
d. $193.75
e. $168.75

____ 7. If the average (arithmetic mean) of 5 distinct integers is 13, what is the greatest possible value of any one of the integers?

a. 68
b. 65
c. 55
d. 50
e. 53

____ 8. The circle graph below shows the percent of students on the track team who participate in the various events. There are 60 students on the track team. How many students participate in running events?



a. 9
b. 60
c. 45
d. 51
e. 6

____ 9. What must be the value of n in the set {0, *n*, –2, 5} if the range of the set is 7 and the median and mean are equal?

a. 1
b. 0
c. 4.5
d. 4
e. 3

Short Answer

10. What is the arithmetic mean of the set of eight numbers below?
–33, –1, 0, 5, 6, 9, 12, 52

11. If the average of 12 numbers is 14 and the average of 4 of those numbers is 18, what is the average of the other eight numbers?