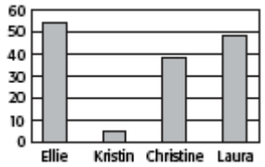
Name: _____ Date: _____ Period: _____

6th Grade Fall Exam 2011 - REVEIW

Directions: Identify the choice that best completes the statement or answers the question.

_____ 1. Ellie, Kristin, Christine, and Laura were selling raffle tickets for a pancake supper. The bar graph below shows how many sales the girls made.



Which girl sold the highest percentage of raffle tickets?

a. Ellie
b. Kristin
c. Christine
d. Laura

_____ 2. Which fraction represents 0.08?

a. $\frac{80}{1}$ b. $\frac{25}{2}$ c. $\frac{2}{25}$ d. $\frac{1}{80}$

_____ 3. Crispin is ordering the following numbers.

$\frac{1}{4}$, 0.03, $\frac{1}{5}$, 12%

Which list shows the numbers in order from least to greatest?

a. 12%, $\frac{1}{5}$, 0.03, $\frac{1}{4}$
b. $\frac{1}{4}$, 0.03, $\frac{1}{5}$, 12%
c. $\frac{1}{5}$, 0.03, 12%, $\frac{1}{4}$
d. 0.03, 12%, $\frac{1}{5}$, $\frac{1}{4}$

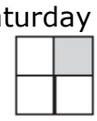
_____ 4. What is the prime factorization of 360?

a. 2 x 4 x 3
b. 2^3 x 3^2 x 5
c. 2 x 3^2 x 4
d. 3 x 4 x 2^3

_____ 5. What is the Greatest Common Factor (GCF) of 42 and 56?

a. 14 b. 12 c. 7 d. 4

_____ 6. Mark is planting a garden. He planted $\frac{1}{4}$ of the garden on Saturday and $\frac{1}{8}$ of the garden on Sunday. Which diagram models the part of the garden that Mark planted on Saturday and Sunday together?

a. 
b. 
c. 
d. 

_____ 7. Jordan has 20 yards of upholstery material. She cuts off one piece of material for a chair and another piece for cushions. The fabric she cuts for the chair is $7\frac{1}{4}$ yards long, and the piece of fabric for the pillows is $6\frac{1}{2}$ yards long. What mixed number shows the length of material Jordan has left?

a. $2\frac{1}{4}$ yd b. $4\frac{3}{4}$ yd c. $5\frac{1}{4}$ yd d. $6\frac{1}{4}$ yd

____ 8. At the end of the school year, 73% of the seventh graders at Max's school received an award for good attendance. What decimal represents 73%?

a. 73.0 b. 7.3 c. 0.73 d. 0.073

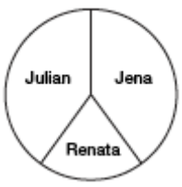
____ 9. Renata, Dulian, and Jena participated in a walk-a-thon for diabetes research. The table below shows the amount of money that each of the three girls raised.

Walk-a-thon for Diabetes

Name	Money Raised
Renata	$90
Julian	$60
Jena	$50

Which circle graph matches the information in the table?

a.



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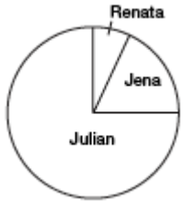

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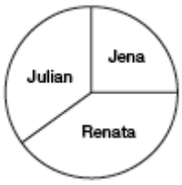
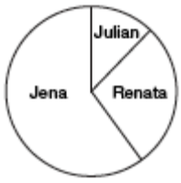


d.



____10. What is the mode of the numbers listed below?

5, 21, 54, 13, 21, 8, 13, 21, 6, 2

a. 4 b. 8 c. 18 d. 21

____11. Which fraction represents 0.09?

a. $\frac{9}{100}$ b. $\frac{9}{10}$ c. $\frac{10}{9}$ d. $\frac{100}{9}$

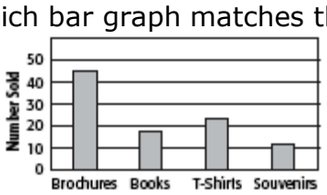
____12. Leigh works at the university art center. She sells brochures, books, T-shirts, and souvenirs. The table below shows the number of items that Leigh sold on Friday.

Sales Track

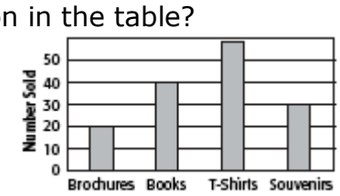
Types of Sales	Number Sold
Brochures	45
Books	18
T-shirts	22
Souvenirs	12

Which bar graph matches the information in the table?

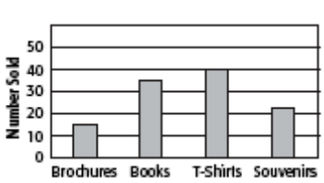
a.



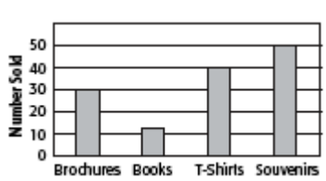
c.



b.



d.



For #13-14, estimate to find the sum or difference.

_____13. $9\frac{1}{5} - 3\frac{4}{7}$

a. $5\frac{1}{2}$
c. 12.5
b. 6
d. 5.63

_____14. $9\frac{14}{15} + 1\frac{4}{11}$

a. 10
c. 12
b. 11.3
d. $11\frac{1}{2}$

_____15. Write the product using an exponent. Then find the value of the power.
8 x 8

a. 8^1; 8
c. 8^3; 512
b. 2^8; 256
d. 8^2; 64

_____16. Find the value of the expression $4u - 8 + 2$ if $u = 9$.

a. 30
c. 6
b. 46
d. 12

For #17-20, use the stem-and-leaf plot below. Gabe used the Internet to research prices of snowboards for his physical education class and recorded the results below.

Stem	Leaf
14	0 5 5 9
15	5
16	3 5
17	4 9
18	5 6 9 9
19	4 8 8 9
20	0
21	4
22	5 5 9
23	
24	
25	9

18|9 =$189

_____17. How many different snowboards did Gabe find in his research?

a. 18
c. 23
b. 25
d. 20

_____18. How much is the most expensive snowboard?

a. $199
c. $225
b. $259
d. $194

_____19. How many snowboards cost at least $200?

a. 5
c. 8
b. 6
d. 4

_____20. What is the median of the data?

a. 9
c. 187.5
b. 186
d. 189

_____21. Write **2.3** decimal in word form.

a. two and three hundredths
b. three hundredths
c. two and three tenths
d. three tenths

_____22. Write **eighteen and fifteen thousandths** as a decimal in standard form.

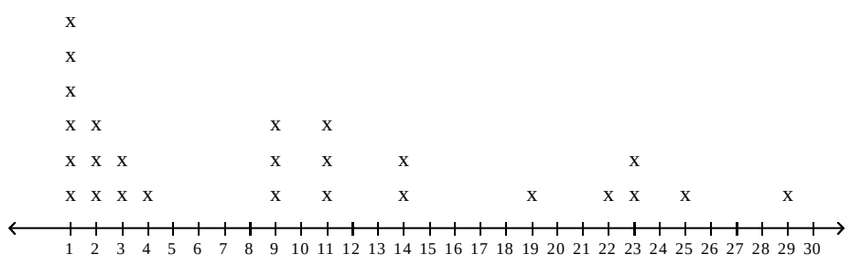
a. 15.18
b. 18.15
c. 18.015
d. 18.0015

_____23. Write **twelve and nine tenths** as a decimal in expanded form.

a. $(1 \times 10) + (2 \times 1) + (9 \times 0.1)$
b. $(1 \times 10) \times (2 \times 1) \times (9 \times 0.1)$
c. $(1 \times 10) + (2 \times 1) + (9 \times 10)$
d. $(12 \times 1) + (9 \times 0.1)$

For #24-25, use the line plot below. The line plot shows the distribution of the 2006 medals for the Winter Olympic Games.

Distribution of Medals at 2006 Winter Olympic Games (by country)



World Almanac

_____24. How many countries won only one medal?
a. 1
b. 3
c. 6
d. 26

_____25. How many countries won two or more medals?
a. 10
b. 20
c. 26
d. 29

_____26. Use >, <, or = to compare the pair of decimals.
17.52 ◯ 17.79
a. $17.52 = 17.79$
b. $17.52 > 17.79$
c. $17.52 < 17.79$

_____27. Order the set of decimals from **greatest to least**.
7.94, 8.64, 7.36, 8.281

a. 7.36, 7.94, 8.281, 8.64
b. 7.36, 8.281, 7.94, 8.64
c. 8.64, 7.94, 8.281, 7.36
d. 8.64, 8.281, 7.94, 7.36

_____28. Round **16.63** to the **tenths** place-value.

a. 16.6
b. 18
c. 20
d. 17

_____29. Add.
$3.15 + 11$
a. 13.15
b. 14.15
c. 14.2
d. 14

_____30. Subtract.

$19.84 - 3.3$

a. 17.54
c. 16.54
b. 16.5
d. 16

_____31. Find the Greatest Common Factor (GCF) of 78, 42, 48.

a. 13
b. 8
c. 7
d. 6

_____32. Write $\frac{16}{64}$ in simplest form.

a. $\frac{1}{32}$
b. $\frac{16}{64}$
c. $\frac{1}{4}$
d. 2

_____33. Write $3\frac{5}{6}$ as an improper fraction.

a. $\frac{8}{6}$
b. $\frac{17}{6}$
c. $\frac{6}{23}$
d. $\frac{23}{6}$

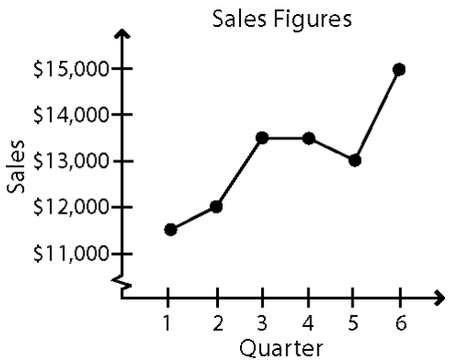
_____34. Write $\frac{22}{7}$ as a mixed number.

a. $4\frac{2}{7}$
b. $2\frac{2}{7}$
c. $4\frac{1}{7}$
d. $3\frac{1}{7}$

_____35. Find the Least Common Multiple (LCM) of 22, 3, and 9.

a. 66
b. 198
c. 9
d. 1

For #36-37, use the graph to answer the following questions.Lisa runs a small business from her home arranging and selling floral displays. She has plotted her sales figures from the first six quarters in the line graph.



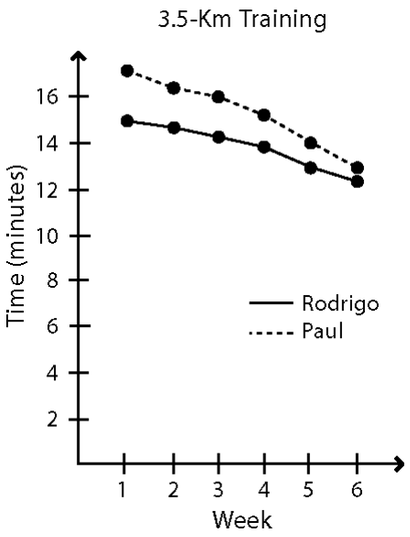
_____36. Which quarter showed a decrease in sales over the previous quarter?

a. second
c. fifth
b. fourth
d. Sixth

_____37. Which quarter showed the greatest increase in sales over the previous quarter? How much was the increase?

a. third; $13,500
c. sixth; $15,000
b. sixth; $2,000
d. third; $1,500

Rodrigo and Paul are on their school's cross country team. Over the past 6 weeks, they have been training together for a 3.5-kilometer race. At the end of every week, the two runners time themselves on the race course. Their results are shown in the line graph.



_____38. Which runner has shown more improvement over the six weeks of training?
a. Paul
b. Rodrigo

_____39. Find the median for the set of data.
41, 99, 37, 52, 39, 17, 95

a. 44
b. 37
c. 53
d. 41

_____40. Find the range for the set of data.
18, 11, 26, 15, 29
a. 11
b. 22
c. 29
d. 18

For #41-42, refer to the frequency table below.

Cartoon Watchers		
Age	**Tally**	**Frequency**
1–5	𝍸𝍸	10
6–10	𝍸𝍸	8
11–15	𝍸	4
16–20	𝍸𝍸	7

_____41. What is the most common age of cartoon watchers?
a. 1–5
b. 6–10
c. 11–15
d. 16–20

_____42. How many people 11 years or older watched cartoons?
a. 18
b. 19
c. 11
d. 29

For #43, refer to the table below that shows Miko's butterfly counts.

BUTTERFLIES

Day	Count
Mon.	10
Tues.	13
Wed.	15
Thurs.	52
Fri.	10

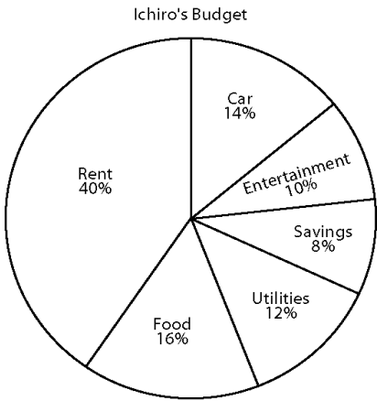
_____43. What is the mean of the butterfly counts?
a. 10
b. 12
c. 13
d. 20

Find the value of the expression.

____44. 60 ÷ (10 + 5) x 6

a. 66
b. 4
c. 36
d. 24

For #45-46, use the graph to answer the following questions. Ichiro uses a circle graph to help him budget his monthly expenses.



____45. What percent of Ichiro's monthly budget is dedicated to his car?

a. 14%
b. 10%
c. 12%
d. 16%

____46. Which of the following is Ichiro's greatest monthly expense?

a. food
b. utilities
c. rent
d. car

____47. Write the product using an exponent. Then find the value of the power.
3 x 3 x 3 x 3 x 3

a. 5^3; 125
b. 3^4; 81
c. 3^6; 729
d. 3^5; 243

____48. **Mike kept track of the types of books he read this year in the table below. What fraction (in simplest form) represents the ratio of mystery books to the total number of books he read?**

BOOKS

Type	# of Books
Mystery	10
Nonfiction	7
Science Fiction	5
Western	2

a. 10
b. $\frac{5}{12}$
c. $\frac{1}{12}$
d. $\frac{7}{24}$

____49. John has two pices of rope that he plans to cut. One piece of rope is 12 yards and the other is 30 yards. He plans to cut all of the rope into equal pieces. What is the greatest possible length of each piece of rope?

a. 6 yards
b. 2 yards
c. 60 yards
d. 120 yards

____50. Sydney ran $2\frac{1}{3}$ miles on Friday, 3.5 miles on Saturday, and $3\frac{2}{5}$ miles on Sunday. How many total miles did Sydney run this week?

a. $9\frac{1}{10}$
b. $9\frac{3}{30}$
c. $8\frac{7}{30}$
d. $9\frac{7}{30}$

____51. Mary is making a dress for her doll. She needs $2\frac{1}{2}$ yards of fabric to make the dress. To decorate the dress, she needs $\frac{9}{10}$ yards of ribbon. How much fabric and ribbon does Mary need to complete the dress for her doll?

a. $2\frac{2}{5}$
b. $3\frac{2}{5}$
c. $2\frac{1}{2}$
d. $\frac{3}{5}$

____52. Use <, =, or > to compare the two expressions below:

Expression R: 30 ÷ (21 - 6) x 4 **Expression S:** 21 - 19 + 4 x 2

a. R > S
b. R < S
c. R = S