Math20-2
Review 2

Please complete the following review questions.
Open a new word document and type in your answers.
If you have trouble with any of the questions, please put that in your document and I can provide some help.
Name your file m20_2_rev2_username (replace username with your username).
Post to the correct Assignment Dropbox.

1. Each pepperoni and bacon pizza must have a ratio of 4 pieces of pepperoni to 3 pieces of bacon. If a pizza has 35 pieces of pepperoni and bacon altogether, how many of these pieces are pepperoni?
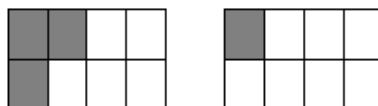
A. 12
B. 15
C. 20
D. 26

2. The thermostat on the pizza oven malfunctioned. First, the temperature dropped 5^oC, then it increased 7^oC, fell 12^oC, and finally decreased a further 30^oC before it stabilized at 185^oC. What was the original temperature?

A. 239^oC
B. 225^oC
C. 131^oC
D. 145^oC

Use the following information to answer question 3.

Connor, a part-time waiter at the Pizza Place, put the leftover slices of pizza in a take-home box for a customer. The shaded portions of the diagram below show the leftover slices.

3. How much of the pizza was left over?

A. ½ of a pizza
B. 3/64 of a pizza
C. 1/4 of a pizza
D. 4/16 of a pizza

Connor, a part-time waiter at the Pizza Place, put the leftover slices of pizza in a take-home box for a customer. The shaded portions of the diagram below show the leftover slices.
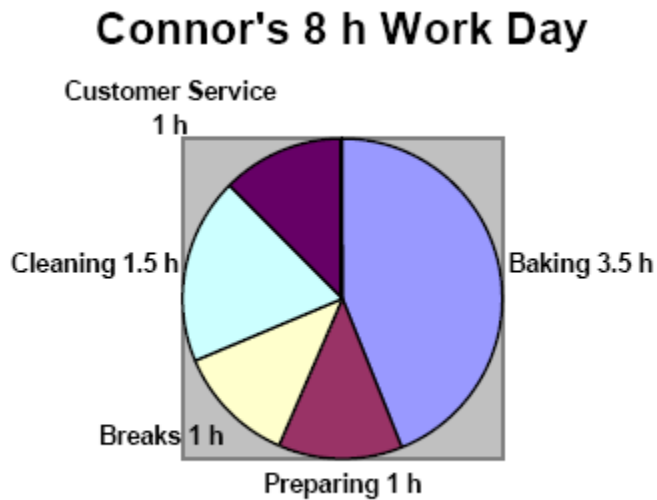
Use the following graph to answer question 4.

Connor's 8 h Work Day

Customer Service
1 h

Cleaning 1.5 h

Baking 3.5 h

Breaks 1 h

Preparing 1 h

4. For what percentage of the work day does Connor spend on Customer Service?

A. 1%
B. 12.5%
C. 10.4%
D. 37.5%

5. The Pizza place's goal for weekly pizza sales was $4 096. Mary said that this amount is the same as $(4^3)^x$, where x equals

A. 2
B. 3
C. 4
D. 5

6. The ratio of boys to girls watching a rehearsal for the play was 3:5. If there were 36 boys, how many girls were there?

A. 22
B. 58
C. 60
D. 96

7. Students sold 330 tickets for the school play, for a total amount of $1 410. If student tickets cost $3 and adult tickets cost $5, how many student tickets were sold?

A. 120
B. 165
C. 176
D. 210

8. A baseball pitcher's batting average is 0.180. What is 0.180 expressed as a fraction in lowest terms?

A. $\dfrac{9}{5}$

B. $\dfrac{2}{11}$

C. $\dfrac{9}{50}$

D. $\dfrac{9}{500}$

Use the following information to answer question 9.

Mrs. Kary kept a record of participants in school activities and the total points some teams accumulated.

Team Colour	Participants	Total Points
Red	26	762
Green	33	978
Yellow	22	641
Blue	29	?

9. Based on the information in the chart, the Blue team's total number of points would most likely be

A. 692
B. 768
C. 809
D. 851

10. A googol is defined as 10^{100}. A googolplex is defined as a googol raised to the 100th power or

A. 10^{200}
B. 10^{1000}
C. $10^{10\,000}$
D. $10\,000^{100}$

Use the following information to answer question 11.

  The cost of one share of a corporation listed on a market exchange was $35.00 one week. The next week, it had gone up 10%. The week after, it dropped 10%.

 11. What was the latest price for one share?

A. $34.65
B. $35.00
C. $38.50
D. $42.00

12. If you wrote down all the numerals from 1 to 9 999. How many digits should you have written?
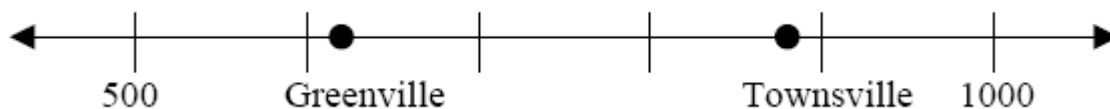
A. 189
B. 2 889
C. 38 889
D. 488 889

13. Kristy was one of 70 people to write a learner's permit test. One-half of all the people who wrote the test passed. If all the people who failed rewrite the test and three-fifths of them pass, how many of the 70 people will have passed after two writings?

A. 21
B. 35
C. 42
D. 56

14. During a recent price war, gas prices dropped from 56.9¢/L to 39.5¢/L. If you bought 55 L of gas, how much did you save by filling up at the lower price?

A. $9.57
B. $17.40
C. $21.73
D. $31.30

15. Which is the best estimate of the distance between the towns shown in the number line below?

A. 50
B. 150
C. 250
D. 350

16. When a positive integer is subtracted from a negative integer, the result is

A. Sometimes positive
B. Always positive
C. Sometimes zero
D. Always negative

17. The diameter of a virus is 0.000 009 95 mm. This diameter expressed in scientific notation is

A. 9.95×10^{-5} mm
B. 9.95×10^{-6} mm
C. 9.95×10^{-7} mm
D. 9.95×10^{-8} mm

18. What is the value of $\dfrac{-2\sqrt{9}}{3^0}$?

A. 0
B. -1
C. -6
D. undefined

19. If $m^2 = 16$, then m equals

A. 8 or -8
B. 4 or -4
C. 4 only
D. 8 only

20. Which statement is true?

A. $4^5 + 4^7 = 4^{12}$
B. $4^{12} - 4^4 = 4^8$
C. $4^2 \times 4^5 = 4^7$
D. $4^5 \times 4^3 = 4^{15}$