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Math 7: Entire Course, 25 Questions

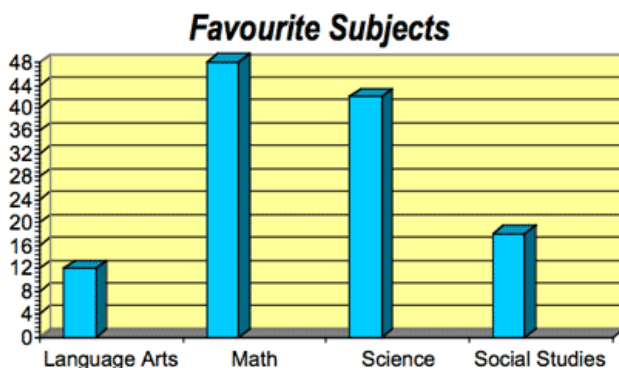
Please wait until the exam has fully loaded in your web browser before starting. **Do not** press "Submit" at the end of the exam until you are sure of your responses, as your test will be graded immediately. Good luck!

1. The median of a set of numbers can best be describes as:

- ☐ A) the largest number in a set
- ☐ B) the most frequently found number in a set
- ☐ C) the average value in a set
- ☐ D) the middle value in a set

2.

120 grade seven students were surveyed. The graph below shows the subject preference for all surveyed students.



What is the difference between the number of students who prefer Math versus the number of students who prefer Social Studies? Identify your answer in percentage form.

- ☐ A) 30%
- ☐ B) 25%
- ☐ C) 20%
- ☐ D) 5%

3. The value of the expression $2(b - 1)$ for $b = 8$ is

- ☐ A) 2
- ☐ B) 6
- ☐ C) 10
- ☐ D) 14

4. The value of the expression $4d - 2$ for $d = 5$ is

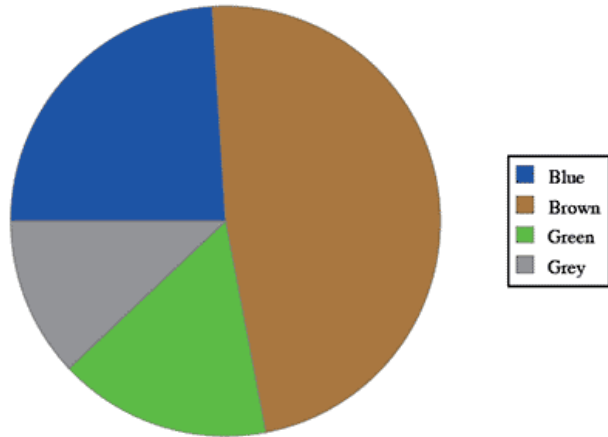
- ☐ A) 20
- ☐ B) 18
- ☐ C) 16
- ☐ D) 14

5. The number of people flying on different airplanes was recorded. The mean was 76 people, and the median was 74 people. If each airplane allowed 4 extra passengers to come aboard, what would be the new mean and median of this dataset?

- ☐ A) Mean = 304; median = 296
- ☐ B) Mean = 80; median = 78
- ☐ C) Mean = 72; median = 70
- ☐ D) We need more data to calculate the new mean and median

6. Each of the students at Iris' school were surveyed to determine how many of them had each of 4 particular eye colours: blue, brown, green, and grey. Every student had to chose the single colour that most closely matched their eyes.

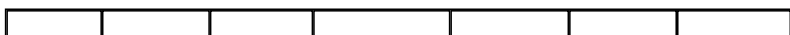
A circle graph was created to display the data, and the results are shown below, but the graph hasn't been labelled yet.



The sector angle for students with grey eyes is very close to 42° and there are SIX students with grey eyes.

How many students in total attend this school?

- ☐ A) 7
- ☐ B) 12
- ☐ C) 42
- ☐ D) 50
- 7.
- A major electronics store was holding a sale. Within the first 3 hours of the sale, they sold 2 times as many digital music players as memory cards. They also sold 4 fewer cell phones than memory cards.
 x = number of memory cards sold.
- Which expression represents the total number of sales of all items?
- ☐ A) $3x + 4$
- ☐ B) $3x - 4$
- ☐ C) $2x + x = 4$
- ☐ D) $4x - 4$
8. Derrick's average mark on 5 math unit tests this year was 76%. If he wants to make the math honour roll, he needs an 80% average on all math unit tests. What mark does he need to get on his next test to make the math honour roll?
- ☐ A) 100%
- ☐ B) 84%
- ☐ C) 80%
- ☐ D) 90%
9. Jaide and Ellie are cousins. Jaide is 3 years older than Ellie. When added together, their ages equal 15. How old is Jaide?
- ☐ A) 11 years old
- ☐ B) 6 years old
- ☐ C) 9 years old
- ☐ D) 27 years old
10. The point (14, 10) is rotated by an angle of 180° about the origin. What are the coordinates of the rotated point?
- ☐ A) (-14, 10)
- ☐ B) (10, 14)
- ☐ C) (14, 10)
- ☐ D) (-14, -10)
- ☐ E) (-10, -14)
11. The coffee and donut shop across from the school sold an average of \$952.25 worth of products each day, based on a period of 7 days.



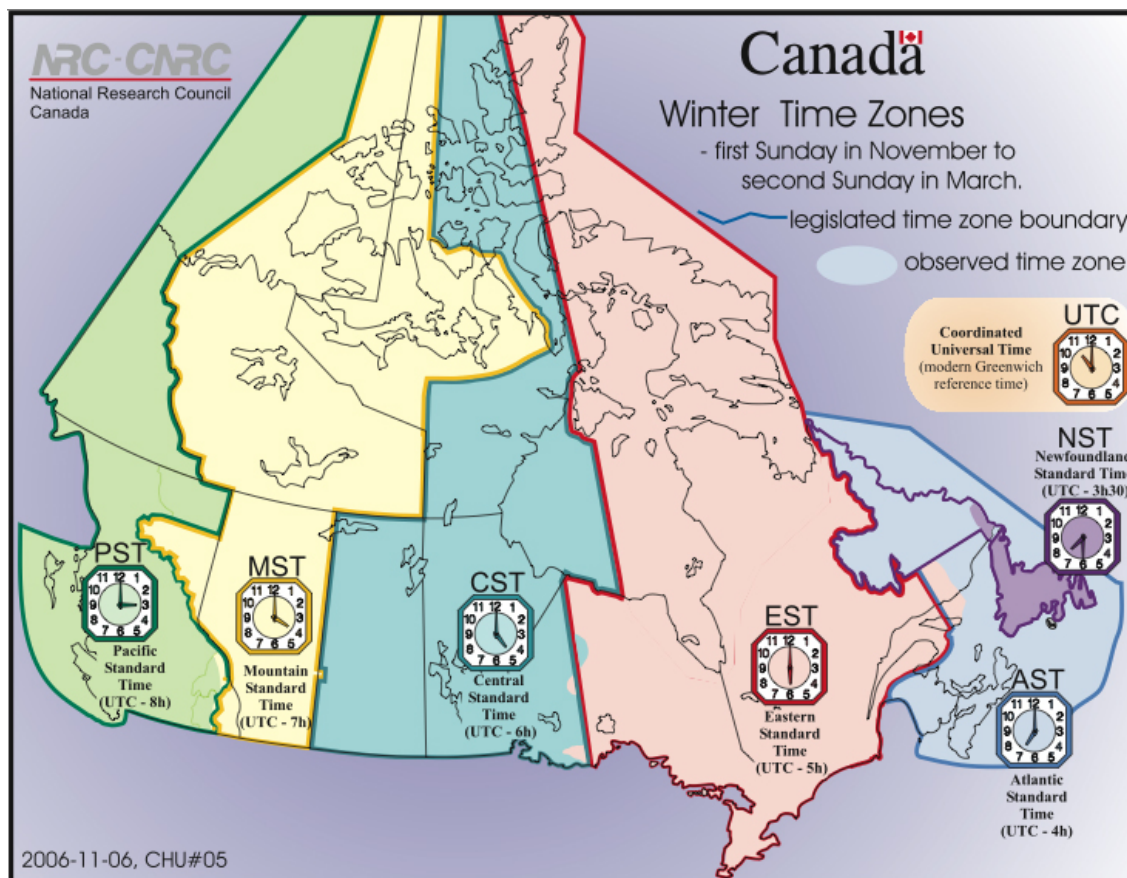
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
\$765.42	\$1423.50	\$948.25	?	\$670.45	\$1085.00	\$865.66

How much money was made on Wednesday?

12.

Coordinated Universal Time (UTC) is a time standard that expresses time zones around the world as POSITIVE or NEGATIVE offsets.

In Canada, these offsets are -8, -7, -6, -5, -4, -3.5, as indicated in the Map below.



So, for example, if the UTC was 10:00 p.m. it would be 4:00 p.m. CST (UTC -6h).

Image source: National Research Council Canada,
http://inms-ienm.nrc-cnrc.gc.ca/time_services/daylight_saving_e.html

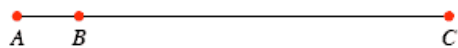
If it is 11:00 a.m. in Quebec City, QC (EST), what time is it in Smithers, BC (PST)?

- ☐ A) 6:00 a.m.
- ☐ B) 7:00 a.m.
- ☐ C) 8:00 a.m.
- ☐ D) 9:00 a.m.

13. The local fast food restaurant employs 12 cashiers at a weekly salary of \$250, four cooks at a weekly salary of \$325, and two supervisors at a weekly salary of \$400. What is the mean salary of the employees at the restaurant?

- ☐ A) \$250.00
- ☐ B) \$283.33
- ☐ C) \$364.28
- ☐ D) \$325.00

14. Given that the length of line segment AB is $2\frac{3}{7}$ units and that the length of line segment BC is $14\frac{1}{2}$ units, then the length of AC (in units), would be:



- ☐ A) $16\frac{1}{14}$
☐ B) $16\frac{4}{9}$
☐ C) $12\frac{9}{7}$
☐ D) $16\frac{13}{14}$
☐ E) $12\frac{3}{14}$
15. Subtract the following fractions:
- $$\frac{18}{7} - \frac{12}{7}$$
- ☐ A) $\frac{3}{7}$
☐ B) $\frac{216}{49}$
☐ C) $\frac{108}{7}$
☐ D) $\frac{6}{7}$
☐ E) $\frac{6}{49}$
16. Asking people which political party they voted for in the last election might raise issues of:
- ☐ A) Privacy
☐ B) Cultural sensitivity
☐ C) Ethics
☐ D) All of the above
17. The decimal 1.64, converted to a fraction and reduced to lowest terms, would be:
- ☐ A) $1\frac{16}{25}$
☐ B) $1\frac{64}{100}$
☐ C) $1\frac{32}{50}$
☐ D) 1.75
18. "Measures of central tendency" refers to descriptive data like those listed below, **except**:
- ☐ A) mean
☐ B) median
☐ C) mode
☐ D) range
19. Passwords for your local library's computer accounts are made up of a letter, a number (single digit), and then a letter, in that specific order. If everything is chosen completely randomly, what is the probability that your password is "i2i"? (The number can be 0-9)
- ☐ A) $\frac{3}{6760}$
☐ B) $\frac{3}{260}$
☐ C) $\frac{1}{6760}$

☐ D) $\frac{1}{260}$

20.

There are 272 students at Memorial Junior High. All students are participating in a Battle of the Homeroom Superstars tournament. Each team consists of 4 students.

Using the rules of divisibility, how many students would be left over once the teams of 4 had been created?

- ☐ A) 3
☐ B) 2
☐ C) 1
☐ D) 0

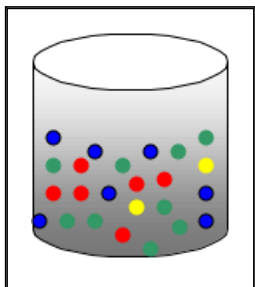
21. Which of the statements below is FALSE?

- ☐ A) The sum of two positive integers is always positive.
☐ B) The sum of two negative integers is always negative.
☐ C) The sum of a negative integer and a positive integer is always positive.
☐ D) The sum of a negative integer and a positive integer is sometimes positive.

22. $x = 5$ is the solution for which equation below?

- ☐ A) $x + 10 = 15$
☐ B) $10 - x = 15$
☐ C) $x - 7 = 2$
☐ D) $42 = 37 - x$

23.



If a marble is drawn at random from the jar shown above, what is the probability that a red marble will be selected?

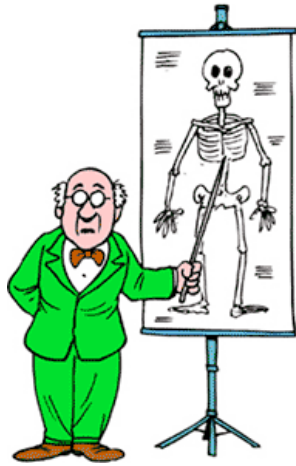
- ☐ A) 6%
☐ B) $\frac{1}{24}$
☐ C) $\frac{1}{4}$
☐ D) $\frac{1}{6}$

24. Stacy is getting new glasses. She has six different frames from which to choose, and with whatever frame she selects, she has her choice of regular or tinted lenses. How many different frame/lens combinations are there for Stacy to choose from?

- ☐ A) 8
☐ B) 2
☐ C) 6
☐ D) 12

25.





Professor Mathemabulous says:
"Bones account for about 20% of a person's total mass."

A reasonable estimate for the mass of bones in a person who weighs 67.4 kg would be:

- ☐ A) 12 kg
- ☐ B) 14 kg
- ☐ C) 16 kg
- ☐ D) 18 kg

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