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Appendix
B

Riddle and Trivia Questions

Group Members:
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1. Riddle

- What object has keys that open no locks, space but no room, and you can enter but not go in? (One word)
- Answer: keyboard

2. Hints/Motivation Quotes - from Items

- Math → Calculator: (hint) The object is usually rectangular
- English → Hamlet: (motiv.) It is not about hard work, it is about working hard!
- Science → Biology Textbook: (hint) The object has numbers and letters
- Business → Money: (hint) The object can be pressed
- PhysEd → Basketball: (motiv) Do it now! Sometimes “later” becomes “never”.
- Art → Paint: (hint) ”Enter” = “Input”

3. Trivia Questions

Choice with text background colour means this is the answer for the question.

Blue means Miao Wang created the question;

Yellow means Jasmine Xiao created the question;

Green mean Calvin Li created the question.

3.1 Math

1. What is the answer to $9+10$?
 - a. 21
 - b. 19
 - c. 36
 - d. None of the above
2. What is the answer to $4*4+4*4+4-4x4$?
 - a. 20
 - b. 4
 - c. 320
 - d. None of the above
3. $2x = 17 + 65 * 3 / 3$, what is x?
 - a. 46
 - b. 64
 - c. 41
 - d. None of the above
4. 20 % of 2 is equal to: b
 - a. 20
 - b. 4
 - c. 0.4
 - d. 0.04

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5. Of the following which is greater than $\frac{1}{2}$?
 - a. $\frac{2}{5}$
 - b. $\frac{4}{7}$
 - c. $\frac{4}{9}$
 - d. $\frac{5}{11}$
6. What is the order of operations?
 - a. BADMAS
 - b. BEDMASS
 - c. BEDMAS
 - d. BODMAS
7. What is an acute angle?
 - a. An angle equal to 180 degrees
 - b. An angle less than 180 degrees
 - c. An angle equal to 90 degrees
 - d. An angle less than 90 degrees
8. What is the formula for the Pythagorean Theorem?
 - a. square of a = square of b - square of c
 - b. square of c - square of a = square of b
 - c. $c = a + b$
 - d. $b = c - a$
9. What is a natural number?
 - a. 0, 1, 2, 3, 4,
 - b.-3, -2, -1, 0, 1, 2, 3,
 - c.-1.5, -1, -0.5, 0, 0.5, 1, 1.5,
 - d. 1, 2, 3, 4, 5,
10. What is the next prime number after 7?
 - a. 8
 - b. 9
 - c. 10
 - d. 11
11. What is the diameter of a circle?
 - a. radius
 - b. radius * 2
 - c. radius / 2
 - d. circumference

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12. Who invented the symbol Pi?

- a. William Jones
- b. Shepare Pie III
- c. Wade Willson
- d. Piscine Patel

13. Which of the following is considered one of the first great mathematicians of the world?

- a. James G.
- b. Pythagoras
- c. Sophocles
- d. Einstein

14. The value of 5 in the number 357.21 is?

- a. 5 tenths
- b. 5 ones
- c. 5 tens
- d. 5 hundreds

15. Which of the following is a subset of {b, c, d}?

- a. {}
- b. { a }
- c. { 1, 2, 3 }
- d. { a, b, c }

16. In coordinate geometry, the equation of the x-axis is?

- a. $y = x$
- b. $y = 0$
- c. $x = 0$
- d. $y = 1$

17. $3x - 4(x + 6) = ?$

- a. $x + 6$
- b. $-x - 24$
- c. $7x + 6$
- d. $-7x - 24$

18. Items bought by a trader for \$80 are sold for \$100. The profit expressed as a percentage of cost price is?

- a. 2.5%
- b. 20%
- c. 25%
- d. 50%

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3.2 English

1. Who is the author for *The Great Gatsby*?
 - a. Maxwell Evarts Perkins
 - b. F. Scott Fitzgerald
 - c. Thomas Stearns Eliot
 - d. Zelda Sayre Fitzgerald

2. "You can't repeat the past." Where does this speech come from?
 - a. The Great Gatsby
 - b. The Little Prince
 - c. Hamlet
 - d. Wuthering Heights

3. "To be or not to be, that is a question." Where does this speech come from?
 - a. The Great Gatsby
 - b. The Little Prince
 - c. Hamlet
 - d. Wuthering Heights

4. Which of the following is not written by Shakespeare?
 - a. Romeo and Juliet
 - b. Macbeth
 - c. The Educated Imagination
 - d. Julius Caesar

5. What is the past tense for the word "read"?
 - a. red
 - b. read
 - c. readed
 - d. reading

6. _____ are you going tomorrow?
 - a. Where
 - b. How
 - c. What
 - d. Who

7. Which word does not belong to the rest of the group?
 - a. December
 - b. cucumber
 - c. logger
 - d. lumber

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8. What is the standard format for an essay?
 - a. Body, Introduction, Conclusion
 - b. Introduction, Body, Conclusion
 - c. Conclusion, Body, Introduction
 - d. None of the above
9. What is not an area of study in English?
 - a. Poetry
 - b. Novel Study
 - c. Mythology
 - d. None of the above
10. Hades is the god of what?
 - a. Love
 - b. Science
 - c. Underworld
 - d. Memes
11. How did Claudius, Hamlet's uncle, die?
 - a. Fell down a flight of stairs
 - b. Stabbed then poisoned
 - c. Stabbed
 - d. Choked on a poisoned apple
12. What genre of literature is Shakespeare best known for?
 - a. Tragedy
 - b. Manga
 - c. Fanfiction
 - d. Science Fiction
13. Who did Oedipus marry?
 - a. His mother
 - b. His sister
 - c. A cowgirl
 - d. A demi-god
14. How many head(s) does Hydra, the mythical water serpent, originally have?
 - a. 1
 - b. 3
 - c. 20
 - d. 9

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15. Where did Aphrodite, the goddess of beauty emerge from?
- a. Fire
 - b. Venom
 - c. A sea shell
 - d. A tree
16. "Each child used the signs differently, and there was no *consistent* grammar.
" Look at the word 'consistent'. This word could best be replaced by which of the following?
- a. natural
 - b. predictable
 - c. imaginable
 - d. uniform
17. "Although Smart Technology is still in its infancy, pilot schemes to promote and test it are already *underway*." The word 'underway' is closest in meaning to:
- a. permanent
 - b. complete
 - c. beneficial
 - d. in progress
18. How does Gatsby die in the end of "The Great Gatsby"?
- a. Someone shoots him
 - b. Die of old age
 - c. Food Poisoning
 - d. Suicide

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3.3 Science

1. What is a type of gas?
 - a. Hydrogen
 - b. Oxygen
 - c. Helium
 - d. All of the above
2. What are the 3 main areas of study in Science?
 - a. exercise science, biology, chemistry
 - b. physics, chemistry, biology
 - c. astronomy, exercise science, biology
 - d. geography, biology, chemistry
3. What is not a form of water?
 - a. rain
 - b. clouds
 - c. hail
 - d. air
4. What is the biggest planet in the solar system?
 - a. Earth
 - b. Sun
 - c. Jupiter
 - d. Moon
5. What do human bodies not produce?
 - a. wastes
 - b. oxygen
 - c. energy
 - d. carbon dioxide
6. What do herbivores eat?
 - a. plants
 - b. plants and animals
 - c. animals
 - d. none of the above
7. Which of the following is used in pencils?
 - a. Graphite
 - b. Silicon
 - c. Charcoal
 - d. Phosphorous

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8. The average salinity of seawater is:
 - a. 3.5%
 - b. 99.9%
 - c. 20%
 - d. 50%
9. Balloons are filled with:
 - a. Nitrogen
 - b. Argon
 - c. Helium
 - d. Oxygen
10. Which of the following is more precious?
 - a. Silver
 - b. Gold
 - c. Diamond
 - d. Copper
11. Which of the following is an element?
 - a. Diamond
 - b. Ruby
 - c. Sapphire
 - d. Emerald
12. Which metal pollute the air of a big city?
 - a. Copper
 - b. Iron
 - c. Cadmium
 - d. Lead
13. When a gas is turned into a liquid, the process is called?
 - a. Condensation
 - b. Evaporation
 - c. Deposition
 - d. Sublimation
14. Earth's seasons are caused by which of the following?
 - a. The tilt of the earth's rotation relative to the ecliptic as earth revolves around the sun
 - b. The varying amount of sunspot activity
 - c. The earth's orbit around the sun as an ellipse rather than a circle
 - d. The rotation of during a 24-hour day

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15. Which of the following parts of the sun is easily visible only during a total solar eclipse?
- a. Core
 - b. Photosphere
 - c. Sunspots
 - d. Corona
16. Which of the following is most likely to cause a rise in the average temperature of earth's atmosphere in future?
- a. Atomic warfare
 - b. CO₂ from fossil fuels
 - c. Dust clouds from volcanoes
 - d. Depletion of earth's ozone layer
17. Which of the following elements is a metal?
- a. S
 - b. Se
 - c. I
 - d. Ga
18. Pollination by birds is called?
- a. autogamy
 - b. ornithophily
 - c. entomophily
 - d. anemophily

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3.4 Business

1. What is not an area of business study?
 - a. computer science
 - b. accounting
 - c. economics
 - d. marketing
2. What is the objective of a business?
 - a. Help people
 - b. Make profits
 - c. Sell food
 - d. Give away food
3. Which of the following is not a business?
 - a. bank
 - b. McDonald's
 - c. gas station
 - d. land
4. What do consumers do?
 - a. buy products
 - b. enjoy services
 - c. spend money
 - d. all of the above
5. What is the accounting equation?
 - a. $\text{assets} - \text{liabilities} = \text{owner's equity}$
 - b. $\text{revenue} = \text{profits}$
 - c. $\text{assets} = \text{profits}$
 - d. none of the above
6. What is not a factor of production?
 - a. land
 - b. labour
 - c. entrepreneurship
 - d. food
7. How should net income be calculated?
 - a. $\text{net income} = \text{money}$
 - b. $\text{net income} = \text{expenses}$
 - c. $\text{net income} = \text{revenue} - \text{expenses}$
 - d. $\text{net income} = \text{revenue}$

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8. What is DECA?
 - a. Do Educate Canadian Artists
 - b. Distributive Education Clubs of America
 - c. Demonstrating Escalated Chartered Accountancy
 - d. Demonstrating Engagement Cost Analysis
9. Who determines interest rates in Canada?
 - a. The prime minister
 - b. Donald Trump
 - c. The Central Bank of Canada
 - d. The beavers
10. Which of the following is a private network, accessible only to an organization's staff?
 - a. Internet
 - b. Intranet
 - c. Inter-webs
 - d. Database
11. Which of the following forms of ownership is a group of individuals organized by a charter that is granted by a state?
 - a. Partnership
 - b. Cooperation
 - c. Proprietorship
 - d. Trust
12. A characteristic of effective prices is that they must be:
 - a. As high as possible
 - b. Inflexible
 - c. As low as possible
 - d. Competitive
13. What does PR stand for in business?
 - a. Productive Results
 - b. Public Relations
 - c. Professional Response
 - d. Produce Results
14. Which financial statement displays the revenues and expenses of a company for a period of time?
 - a. Income Statement
 - b. Balance Sheet
 - c. Cash Flow Statement
 - d. Statement of Stockholder's Equity

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15. What is the main purpose of financial accounting?
- a. Organize financial information
 - b. Provide useful, financial information to outsiders
 - c. Keep track of company expenses
 - d. Minimize company taxes
16. Which financial statement uses the expanded accounting equation?
- a. Income Statement
 - b. Balance Sheet
 - c. Cash Flow Statement
 - d. Statement of Stockholder's Equity
17. The account format that displays debits, credits, balances, and headings is...?
- a. General Journal
 - b. General Ledger
 - c. T-Account
 - d. Ledger Account
18. Asset accounts have what type of balance?
- a. Debit
 - b. Credit
 - c. Contra
 - d. All of the above

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3.5 PhysEd

1. Health is primarily a responsibility of the?
 - a. Parent
 - b. Individual
 - c. Community
 - d. Teacher

2. What is not a type of sport?
 - a. basketball
 - b. skating
 - c. hunting
 - d. reading

3. What is a water sport?
 - a. gymnastics
 - b. weightlifting
 - c. canoeing
 - d. sky diving

4. Ping-pong is an alternative name for which sport?
 - a. table tennis
 - b. tennis
 - c. cross-country
 - d. basketball

5. Which of the following is a world-wide sports competition?
 - a. Nobel Peace Prize
 - b. the Olympics
 - c. Jeopardy
 - d. all of the above

6. Which sport uses a ball?
 - a. skiing
 - b. bowling
 - c. ice hockey
 - d. badminton

7. What is an advantage to exercise?
 - a. stress relief
 - b. better health condition
 - c. improves memory
 - d. all of the above

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8. The Stanley cup is awarded in?
 - a. Football
 - b. Basketball
 - c. Hockey
 - d. Swimming
9. The National Game of India is?
 - a. Cricket
 - b. Football
 - c. Hockey
 - d. Badminton
10. Which of the following food stuff contains almost all ingredients of a balanced diet?
 - a. Meat
 - b. Milk
 - c. Chicken
 - d. Fish
11. Where did the Olympics start?
 - a. Greece
 - b. USA
 - c. Canada
 - d. India
12. The best quality of a Physical Education teacher is?
 - a. Young
 - b. Civilized
 - c. Good performance
 - d. Smart
13. Where is the host city of 2012 Summer Olympics?
 - a. Rio de Janeiro, Brazil
 - b. London, United Kingdom
 - c. Beijing, China
 - d. Athens, Greece
14. What is the motto for 2008 Summer Olympics?
 - a. Inspire a Generation
 - b. One World, One Dream
 - c. Welcome Home
 - d. Live your passion

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15. Where is the host city of 2008 Summer Olympics?

- a. Athens, Greece
- b. London, United Kingdom
- c. Beijing, China
- d. Rio de Janeiro, Brazil

16. Where is the host city of 2004 Summer Olympics?

- a. Athens, Greece
- b. London, United Kingdom
- c. Beijing, China
- d. Rio de Janeiro, Brazil

17. Where is the host city of 2010 Winter Olympics?

- a. Vancouver, British Columbia, Canada
- b. London, United Kingdom
- c. Beijing, China
- d. Rio de Janeiro, Brazil

18. Which is not an Olympic sport?

- a. Archery
- b. Boxing
- c. Darts
- d. Table Tennis

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3.6 Art

1. What are the names of the 2 main characters in the movie *Frozen*?
 - a. Olaff and Elsa
 - b. Elsa and Anna
 - c. Olaff and Elsa
 - d. Meow Meow and Olaff
2. What are the primary colours in arts area?
 - a. Red, Blue, Green
 - b. Red, Blue, Yellow
 - c. White, Black, Gray
 - d. Green, Orange, Purple
3. What are the secondary colours in arts area?
 - a. White, Black, Gray
 - b. Red, Blue, Green
 - c. Green, Orange, Purple
 - d. Cyan, Magenta, Yellow
4. What is CMYK colour stand for?
 - a. Cyan, Magenta, Yellow, Black
 - b. Ceil, Maize, Yellow, Black
 - c. Celadon, Malachite, Yellow-Green, Blond
 - d. Chinese Red, Mantis, Yellow-Orange, Bistre
5. Describe the meaning of *naturalism* in visual conventions.
 - a. Stories about heroes with superhuman or divine qualities
 - b. Puts things together, often side by side, to show similarities and differences
 - c. Artists rely on magical or supernatural effects with exaggeration and distortion
 - d. Artists represent people, objects, and nature as they are in real life
6. Describe the meaning of *epic storytelling* in visual conventions.
 - a. Stories about heroes with superhuman or divine qualities
 - b. Puts things together, often side by side, to show similarities and differences
 - c. Artists rely on magical or supernatural effects with exaggeration and distortion
 - d. Artists represent people, objects, and nature as they are in real life
7. Describe the meaning of *juxtaposition* in visual conventions.
 - a. Stories about heroes with superhuman or divine qualities

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- b. Puts things together, often side by side, to show similarities and differences
 - c. Artists rely on magical or supernatural effects with exaggeration and distortion
 - d. Artists represent people, objects, and nature as they are in real life
- 8. Describe the meaning of *Fantasy* in visual conventions.
 - a. Stories about heroes with superhuman or divine qualities
 - b. Puts things together, often side by side, to show similarities and differences
 - c. Artists rely on magical or supernatural effects with exaggeration and distortion
 - d. Artists represent people, objects, and nature as they are in real life
- 9. What is the meaning of feminism?
 - a. Artists try to voiced social and political concerns
 - b. Rejects art defined by authority/elitism
 - c. Art that interrogates colonial legacies of inequality, power and oppression
 - d. A movement advocating equal rights, status, ability, and treatment of women
- 10. How many episodes does the movie *Harry Potter* have?
 - a. 6
 - b. 7
 - c. 8
 - d. 9
- 11. What colour is created when red and green is mixed together?
 - a. brown
 - b. purple
 - c. blue
 - d. pink
- 12. What is not a form of art?
 - a. drama
 - b. running
 - c. dance
 - d. music
- 13. What are some types of performing art?
 - a. theatre, dance, paintings
 - b. drama, music, circus
 - c. music, circus, writing

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d. dance, operas, sculptures

14. Batman belongs to which of the following comic book publisher?

- a. Marvel Comics
- b. Dark Horse Comics
- c. DC Comics
- d. None of the above

15. The uniforms of what Italian military force were originally designed by Michelangelo?

- a. Vatican Swiss Guards
- b. SWAT
- c. The Navy Seal
- d. Polizia analisi grammaticale

16. Pablo Picasso's real name is actually how many words long?

- a. 5
- b. 6
- c. 12
- d. 23

17. Michelangelo considered himself a sculptor first. Which was his favorite rock?

- a. Quartz b. Granite c. Marble d. Onyx
- b. Onyx
- c. Marble
- d. Granite

18. Spiderman belongs to which of the following comic book publisher?

- a. Marvel Comics
- b. Dark Horse Comics
- c. DC Comics
- d. None of the above