Simulation 3:

Arithmetic Reasoning: (28 minutes)

1. Fernando has 80 cards. He sold 2/5 of the cards to a friend, and gave 1/5 to his brother. How many cards did he sell?

A. 30 B. 32 C. 48 D. 16 E. 18

2. A person invests $5,000 in a 2-year term deposit that pays 4.2% interest per year.

How much money will he have in the account at the end of the 2-year term?

A. $210 B. $4200 C. $5,420 D. $420 E. 5,210

3. Six men have to share a load that weigh 18kg 550g equally among themselves. How much weight will each man have to carry?

A. 50 g B. 6 kg 92g C. 3 kg 92g D. 8 kg 550 g

4. An employee's salary has increased by 25 %. If the employee new salary is $150, what was his old salary?

A. $120 B. $125 C.112 D. $115 E. 105

5. In the ratio of Bulls fans to Pacers fans is 5 to 3 and all 40000 seats of the stadium are filled, how many Pacers fans are there in the stadium?

A. 15,000 B. 13,333 C. 8,000 D. 25,000 E. 18,000

6. There are 83 students in a class, 20 are absent. What percent of students are not absent?

A. 76 B. 72 C. 22 D. 24

7. A box is 10 inches long, 10 inches wide, and 5 inches high. Its wide is doubled, what is the volume of the new box?

A. 250 inches3 B. 1000 inches3 C. 5000 inches3 D. 500 inches3

8. Marlo pays $600 rent each month. Bea’s rent is 4% higher. How much rent does Bea pay?

A. 630 B. 240 C. 610 D. 624

9. If Kelly can run around the block four times in 20 minutes, how many times can she run

around the block in one hour?

a. 10 b. 12 c. 15 d. 16 E. 30

10. During the last week of training on an obstacle course, a recruit achieves the following times in seconds: 66, 57, 64, 58, 64, 59, and 63. The recruit's three best times this week are averaged for his final score on the course. What is his final score?

A. 58 seconds B. 55 seconds C. 73 seconds D. 61 seconds E. 65 seconds

11. A boy casts a shadow of 25 feet high, and he measures 5 feet. A nearby pole measures 14 feet how much will the shadow of the pole measure?

A. 56 feet B. 74 feet C. 60 feet D. 70 feet E. 37 feet

12. Sussan buys 3 books for 13.25 each, two cases of pencils for 2.30, and 4 erasers for 6 dollars. How much was Sussan’s total purchase?

A. $67.55 B. $21.55 C. $48.05 D.50.35

13. Steve wants to fence his yard. If it measures 60 feet long and 11 feet wide. How long does the fencing material have to be?

A. 142 feet B. 120 feet C. 660 feet D. 71 feet

Word Knowledge: (5 minutos)

1. Listless most nearly means:

A. fast B. unenergetic C. without D. oral

2. The witches made the potion using a cauldron.

A. pot B. spoon C. broom D. manuscript

3. Ore most nearly means:

A. compel B. cookie C. wrong D. mineral

4. Cub most nearly means:

A. fire B. bear C. bambino D. cut

5. Scourge most nearly means:

A. poor B. deposit C. wealthy D. Plague

6. Excel most nearly means:

A. Obscure B. Shine C. Program D. Exert

7. Feat most nearly means:

A. Impossible B. undefeated C. accomplishment D. foot

8. Scuffle most nearly means:

A. wrestle B. Start C. toss D. Stop

9. I can attain my goals when I study hard.

A. Forget B. Finish C. Achieve D. Effect

10. The defect was noticeable.

A. sign B. decry C. art D. blemish

Math knowledge: (16 minutos)

1. What is another way to write 34 ?

A. 7 B. 12 C. 27 D. 81

2. 16% of 42 =

A. 9.6 B. 10.3 C. 8.4 D. 6.7

3.

A. 37 B. 5,040 C. 24 D. 640

4. 4 2 / 3 + 5 3 / 10 =

A. 9 5/13 B. 9 29/30 C. 9 19/30 D. 9 1/3

5. 10 + (4 + 2)2 x 4 =

A. 184 B. 154 C. 90 D. 58 E. 164

6. Convert 17 yards to inches:

A. inches B. 154 inches C. 180 inches D. 51 inches

7. 8w + 10 = 3w – 2 Find w?

A. B. -1 C. -3 D.

8. If x = 2 and y = 5, what is yX3=

A. 30 B. 40 C. 45 D. 35 E. 1000

9. What is the perimeter of the triangle: 3.5 cm 2.9 cm

A. 9 B. 6.8 C. 40.6 D. 10.4

4 cm

10. 25 percent of what number is equal to 5?

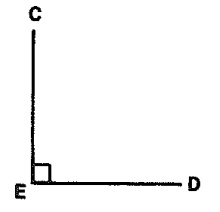
A. 5 B. 20 C. 40 D. 50

11. Which of the following can be measurements of angles of an scalene triangle.

A. 60, 60, 60 B. 60, 40, 80 C. 40, 50, 100 D. 10, 10, 160

12. If 4 - x = x - 4, then x =

A. 4 B. 0 C. -4 D.



13.

In the diagram above, CE I ED . If CE = 400 and ED =300, what is the shortest distance from C to D?

A. 500 B. 900 C. 1000 D. 1200

14. The median of 13, 9, 5, 7, 33 is:

A. 5 B. 14 C. 18 D. 9

15. (x + 7) (x – 4)

A. x2- 11x + 28 B. x2- 11x - 28 C. x2+ 11x + 28 D. x2+ 3x - 28

Paragraph comprehension: (8 minutes)

1. The least dangerous type is a dry snow avalanche, which is made up of powdery snow. A dry snow avalanche most often occurs on steeper slopes during a snowstorm when the temperatures are below freezing. Despite the fact that they can reach speeds of up to 225 miles per hour, these avalanches tend to be small, and their snow is loose, not compacted, so they are less dangerous. Yet even a dry snow avalanche can cause harm under the right conditions. A wet snow avalanche differs from a dry snow avalanche in that it consists of loose, partially melted snow and water. **What is the main idea?**

A. The speed of wet snow and dry snow.

B. The difference of dry snow avalanches and wet snow avalanches.

C. Dry snow avalanches and wet snow avalanches are very similar.

D. Wet snow avalanche is less dangerous.

2. Odysseus visited the island as part of his exploration to look for supplies. He brought with him a flask of wine. Although he was regarded as an intruder by the Cyclops, he helped himself to the giant’s supplies without permission. The Cyclops became very angry. To ease the anger, Odysseus served him some wine. The Cyclops enjoyed the wine and asked for more. Later, when the Cyclops is in a wine induced stupor, Odysseus attacks him in the eye. Later Odysseus brags to his comrades about blinding the one-eyed creature. **Why where the Cyclops mad?**

A. Odysseus took the supplies.

B. Odysseus visited the island.

C. Odysseus attacks him in the eye.

D. Odysseus gave him wine.

E. Odysseus brags to his friends.

3. Not all Greek heroes were admired for the same reasons. Some, such as Odysseus, were admired for their resourcefulness and intelligence, whereas others, such as Herakles, were known for their strength and courage. Some were not particularly resourceful but depended on help to accomplish their tasks. **What is the main idea in the paragraph?**

A. All hero's had strength and courage.

B. Odysseus, was admired for their resourcefulness and intelligence.

C. Some hero's were admired for the same motive

D. Not all hero's are admired for the same motive

E. All hero's were different.