**Cobb – Montford Mini-Mu Competition**

**Cobb Middle School**

**February 16, 2019**

 

**Part 1**

**Print Your Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Print School Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Print Teacher Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Circle Your Grade 4 5**

***\*\*\*\*\*IMPORTANT INFORMATION\*\*\*\*\*\****

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***--------------------------------------------------------------------------------***

***NOTA = None of These Answers***

***--------------------------------------------------------------------------------***

1. Wonder Woman can leap in the air after getting a running start. If she runs and takes 2 giant steps, she can leap 9 feet in the air. If she runs and takes 5 giant steps, how many feet can she leap into the air?

A. 90 ft B. 22.5 ft C. 12 ft D. 16 ft E. NOTA

1. Superman can lift 4.3 tons with one hand. We know that 2000 pounds is equal to one ton; so how many total **pounds (lbs)** can Superman lift with both hands?

A. 8600 lbs B. 2004.3 lbs C. 172,000 lbs D. 17,200 lbs E. NOTA

1. Thor is with Heimdall looking into the 9 Realms. Thor visits each of the 9 Realms three times a month. How many **total visits** will Thor make in one year?

A. 27 B. 324 C. 108 D. 12 E. NOTA

1. Spiderman was making different spider webs in his basement. He made a spider web with twelve sides (each side is equal length). He used a total of 56.4 yards of webbing out of his wristbands. How many **feet** of spider web was on each side?

A. 14.1 ft B. 169.2 ft C. 4.7 ft D. 18.8 ft E. NOTA

1. Aquaman was racing a submarine to the island. They start at the same starting point. Aquaman could swim 60 miles per hour (mph) while the submarine could travel at 48 mph. How many miles (mi) would Aquaman be ahead of the submarine after 3 ½ hours?

A. 42 mi B. 168 mi C. 378 mi D. 210 mi E. NOTA

1. Star-Lord with the Guardians of the Galaxy loved listening to the cassette tape his Mom made for him of her favorite songs. How many total minutes will it take Star-Lord to listen to his 5 favorite songs if they are $3\frac{1}{3}$ minutes, $4\frac{1}{2}$ minutes, $3\frac{2}{3}$ minutes, $4\frac{3}{4}$ minutes and $2\frac{3}{4}$ minutes?

A. $16\frac{5}{8}$ min B. $17\frac{5}{12}$ min C. $18\frac{1}{2}$ min D. 19 min E. NOTA

1. Batman’s airplane uses $3\frac{3}{4}$ gallons of gas each 10 minutes it is flying. At this rate, how many total gallons (gal) of gas will Batman’s airplane use for a 4-hour trip?

A. 150 gal B. 15 gal C. 45 gal D. 90 gal E. NOTA

1. If Thor’s Hammer can travel 62 feet per second, how many feet (ft) can his Hammer travel in one hour?

A. 3720 ft B. 223,200 ft C. 3600 ft D. 162 ft E. NOTA

1. Wonder Woman lived on an island where the women practiced their skills in a large rectangular practice field. The dimensions of the practice field were 382.5 feet long and 78.6 feet wide. What is the area of the practice feet in square feet (sq ft)?

A. 30,064.5 sq ft B. 8032.5 sq ft C. 2295 sq ft D. 300,645 sq ft E. NOTA

1. Find the perimeter of the practice field Wonder Woman and her friends practiced on if the dimensions of the practice field were 382.5 feet long and 78.6 feet wide.

A. 2295 ft B. 922.2 ft C. 461.1 ft D. 2337 ft E. NOTA

1. Groot in Guardians of the Galaxy grows $\frac{1}{8}$ inch each month. How many inches (in) will Groot grow in $5\frac{1}{3}$ years?

A. 64 in B. $5\frac{2}{11}$ in C. $\frac{2}{3}$ in D. 8 in E. NOTA

1. Captain America jogged around a track that was $\frac{1}{4}$ mile long. He jogged around the track 22 times each day for a 7-day period. At the end of that week, how many miles (mi) had Captain America run around the track?

A. 154 mi B. 77 mi C. $38\frac{1}{2}$ mi D. $5\frac{1}{2}$ mi E. NOTA

1. What is the next figure in the pattern:

A. B. C. D. E. NOTA

1. Ant Man can shrink and grow in size as needed. Ant Man’s right leg is normally 32 inches long. If he shrinks 20 times smaller, how many inches (in) long will his right leg be after he shrinks?

A. 2.6 in B. 0.62 in C. 12 in D. 1.6 in E. NOTA

1. Superman comes from planet Krypton where the gravitational pull is much stronger than the gravitational pull is on Earth. If a man weighs 180 pounds on Earth, then he weighs 450 pounds on Krypton. If Batman weighs 200 pounds on Earth, then how many pounds (lbs) would Batman weigh on Krypton?

A. 470 lbs B. 500 lbs C. 405 lbs D. 830 lbs E. NOTA

1. Aquaman needed to know the total number of fish in a section of the Ocean. On Monday, he counted six -dozen. On Tuesday, he counted double the amount on Monday. On Wednesday, he counted half the number on Monday. On Thursday, he counted triple the amount on Monday. How many **total** fish did Aquaman count in the 4 days?

A. 216 B. 468 C. 72 D. 144 E. NOTA

1. Superman can run 7,200,000 miles per hour. At this rate, how many **one-way trips** could Superman make between Miami, Florida and Anchorage, Alaska in one hour if the cities are 5,000 miles apart?

A. 1440 B. 720 C. 144 D. 7200 E. NOTA

1. Spiderman can lift 170 times his own weight. If Spiderman weighs 183 pounds, how much weight in pounds (lbs) can Spiderman lift?

A. 3111 lbs B. 30,110 lbs C. 31,110 lbs D. 353 lbs E. NOTA

1. Solve for *k*: *k* + 2*k* + 3*k* = 30

A. *k =* 5 B. *k =* 0 C. *k =* 12 D. *k =* 10 E. NOTA

1. Captain America and Falcon enjoy jogging around the Tidal Basin in Washington DC. The trail around the Basin is 2 miles. Falcon ran around the Tidal Basin 5 times while Captain America ran around the Tidal Basin 24 times. How many **total** miles (mi) did Captain America and Falcon run around the Tidal Basin?

A. 58 mi B. 31 mi C. 48 mi D. 44 mi E. NOTA

1. Captain Marvel flew Air Force jets for many years. If she is only allowed to fly 6 hours a day, how many whole days would it take her to complete her 200 hour requirement?

A. 33 days B. 34 days C. 194 days D. 1200 days E. NOTA

*Use the figure below for questions 22 and 23.*

10 ft

15 ft

10 ft

48 ft

20 ft

10 ft

25 ft

1. Tony Stark owns the building shown above. How much area in square footage (sq ft) is in the whole building so he can purchase the carpet?

A. 880 sq ft B. 830 sq ft C. 980 sq ft D. 767.5 sq ft E. NOTA

1. Flash has to measure the perimeter around this building to set up a force field. How many feet (ft) of wire does he need to run around the perimeter of this building?

A. 176 ft B. 118 ft C. 186 ft D. 138 ft E. NOTA

1. Find the next number in the pattern: 1, 4, 10, 22, 46, \_\_\_\_\_\_

A. 92 B. 83 C. 94 D. 48 E. NOTA

1. Green Lantern can use his special ring to do many spectacular things, but the ring must be recharged in the special lantern. After using the ring for 12 hours, Green Lantern must then recharge it for the next 4 hours (he does not use the ring while it is charging). How many times will Green Lantern have to recharge the ring from Noon on Sunday to Noon on Thursday?

A. 48 B. 6 C. 3 D. 8 E. NOTA

STOP

**Check back over your work and sit quietly until the teacher calls time.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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 **Part 1**

**Part 2**

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***---------------------------------------------------------------------------------***

1. Hawkeye needed to practice shooting his arrows. If he loses 3 arrows for every 26 arrows he shoots, how many total arrows will he lose if he shoots 104 arrows?

A. 4 B. 8 C. 34 D. 12 E. NOTA

1. Captain Marvel can time travel! If she leaves in 2019 to time travel back two centuries, three decades and four years, what year would she land in?

A. 2010 B. 1785 C. 1755 D. 2253 E. NOTA

1. When Hulk is running, he jumps 12 feet in each step. How many steps would the Hulk need to take to get from Exit 199 to Exit 203 on Interstate 10? (That is a 4 mile stretch of road and 5280 feet = one mile.)

A. 21,120 B. 1760 C. 7040 D. 1320 E. NOTA

1. Iron Man was testing a new suit because he needed to know how much it could lift in pounds. On his first test, he lifted 200 pounds. On his second test, he lifted double the amount of the first test. On his third test, he lifted the amount of his second test plus $\frac{1}{2}$ the amount of the first test. On his fourth test, he doubled the whole amount he lifted on the third test. How many pounds (lbs) did Iron Man lift on his fourth test?

A. 1100 lbs B. 400 lbs C. 100 lbs D. 1000 lbs E. NOTA

1. The Guardians of the Galaxy travel through space between many planets. They traveled 3.4 light years on Monday, rested on Tuesday, 5.82 light years on Wednesday, rested on Thursday, 7.15 light years on Friday,12 light years on Saturday, and rested on Sunday. What is the total number of light years the Guardians traveled that week?

A. 25.31 B. 28.37 C. 13.43 D. 17.57 E. NOTA

1. Batman needed to practice throwing his rope and hook up to the top of the building. He threw it up $24\frac{2}{3}$ yards on Monday and $32\frac{1}{4}$ yards on Tuesday. How much farther in yards (yds) did Batman throw the rope on Tuesday?

A. $7\frac{7}{12}$ yds B. $8\frac{1}{12}$ yds C. $8\frac{5}{12}$ yds D. $8\frac{3}{7}$ yds E. NOTA

1. Superman saved 125 people on Monday from a volcano erupting. On Tuesday, he saved 243 people from a tsunami. On Wednesday, he saved 179 people from a sinking ship. On Thursday, he saved 89 people from a forest fire. What was the mean (average) of how many people Superman saved during those four days that week?

A. 152 B. 159 C. 359 D. 636 E. NOTA

1. Captain Marvel traveled to planet Kree. She worked 9 hours each day and the total trip takes two years and 17 days. (365 days = one year) How many total hours (hrs) did she work on board the space ship to Kree?

A. 6570 hrs B. 6723 hrs C. 83 hrs D. 747 hrs E. NOTA

*Use this figure for questions 34 and 35*.

8 ft

8 ft

46 ft

Baby Fish Pool

18 ft

18 ft

8 ft

8 ft

46 ft

1. Aquaman designed a pool for baby fish to keep them safe. Looking at the figure above, calculate the area in square feet (sq ft) of the bottom of the pool.

A. 1564 sq ft B. 1852 sq ft C. 2108 sq ft D. 828 sq ft E. NOTA

1. Looking at the figure above of the pool Aquaman designed for the baby fish, calculate the perimeter in feet (ft).

A. 192 ft B. 160 ft C. 176 ft D. 1564 ft E. NOTA

1. If Spiderman needs 156 yards of webbing for one night of swinging between buildings, then how many yards (yds) will he need for the month of March if he goes out every night that month?

A. 468 yds B. 4680 yds C. 52 yds D. 4836 yds E. NOTA

1. Solve for *m*: 33 = 2*m* + 5

A. *m =* 8 B. *m =* 28 C. *m =* 14 D. *m =* 19 E. NOTA

1. Wonder Woman can throw her shield $\frac{1}{8} $of a mile. How many **yards** (yds) can Wonder Woman throw her shield? (5280 feet = 1 mile)

A. 220 yds B. 660 yds C. 1980 yds D. 42,240 yds E. NOTA

1. Superman lifts up and carries a school bus full of 84 students away from destruction. The bus and students together weigh 42,800 pounds. How many **tons** did Superman carry away to safety?

A. 42.8 tons B. 21.4 tons C. 509.5 tons D. 214 tons E. NOTA

1. Thor threw his Hammer and it traveled at 45 meters per second. How many meters (m) can the Hammer travel in one hour?

A. 2700 m B. 5400 m C. 162,000 m D. 54,000 m E. NOTA

1. Batman’s airplane uses 78.2 gallons of gas in 35 hours. About how many gallons (gal) of gas did the airplane use in one hour?

A. 22.34 gal B. 43.2 gal C. 2.23 gal D. 0.45 gal E. NOTA

1. Thor was gathering an army. He knew he had 478,517 soldiers in one realm and 235,408 soldiers in another realm. If Thor needs one million soldiers to make his army, how many more soldiers will he still need to gather?

A. 713,925 B. 286,075 C. 243,109 D. 521,483 E. NOTA

1. Flash raced 2800 miles across the US in 5.4 seconds. About how many miles (mi) did Flash run in one second?

A. 2794.6 mi B. 15,120 mi C. 51.85 mi D. 518.52 mi E. NOTA

1. Solve for *w*: 3*w* + 5*w* – 4 = 220

A. *w =* 28 B. *w =* 27 C. *w =* 224 D. *w =* 55 E. NOTA

1. Black Widow trains from 6:00 am – 8:00 pm with three 1-hour breaks each day for 5 days a week. How many **total hours** (hrs) of training did Black Widow do during those five days that week?

A. 14 hrs B. 55 hrs C. 11 hrs D. 70 hrs E. NOTA

1. Spiderman can swing 158 yards between buildings. How many **inches** (in) did Spiderman swing?

A. 4.39 in B. 4740 in C. 5688 in D. 1896 in E. NOTA

1. Hulk loses his shoes every time he changes from Bruce Banner to Hulk. It costs him $56.50 to buy a new pair of shoes. If he changes to the Hulk twice a week, how much will it cost Bruce Banner to replace the shoes he loses for a whole year? (52 weeks = one year)

A. $ 104.00 B. $ 5876.00 C. $ 2938.00 D. $ 113.00 E. NOTA

1. Black Panther wanted to inspire the youth of Wakanda. He vowed to allow the youth to travel to different countries to gather new ideas. In January, he sent out 16 youth. In February, he sent out triple the number from January. In March, he sent $1\frac{1}{2}$ times the number in January. In April, he sent the $\frac{1}{2}$ the number from January. How many **total** youth did Black Panther send out from Wakanda?

A. 80 B. 32 C. 48 D. 96 E. NOTA

1. Tony Stark (Ironman) donates money to the local school to buy new grass for the football field. If the rectangular field is 360 feet long and 160 feet wide, what is the area in square feet (sq ft) of grass needed to fill the football field?

A. 57,600 sq ft B. 5760 sq ft C. 1040 sq ft D. 2320 sq ft E. NOTA

1. The Guardians of the Galaxy consists of these 5 members of the crew: Star-Lord, Gamora, Groot, Rocket Raccoon and Drax the Destroyer. If each one of the 5 members work 8 hours at twelve different times on the trip to Earth; how many **total hours** (hrs) were worked by the whole group?

A. 96 hrs B. 200 hrs C. 2400 hrs D. 480 hrs E. NOTA

STOP

**Check back over your work and sit quietly until the teacher calls time.**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

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