

2018 Metrobank-MTAP-DepEd Math Challenge
Division Finals – Team Orals Competition
Grade 4

15-Second Questions [2 points each]

1. In a room are 8 rows of chairs with 7 chairs in each row. If only three-fourths of the chairs were occupied, how many chairs were empty? [14 chairs]
2. Maricar has 185 pencils. She gave 6 pencils to each student in her class. If she has fewer than 6 pencils left, how many students did Maricar have? [30]
3. On seven different days, Samantha read a book for 56 of an hour. What was the total number of hours Samantha read her book on the seven different days? Express your answer as a mixed number in simplest form. [$5\frac{5}{6}$ hours]
4. I am a three digit number. I am larger than 399 and smaller than 500. Both my tens and ones digits are odd and their sum is 4. My ones digit is larger than the tens. What number am I? [413]
5. What is the remainder when 3,837 is divided by 9? [3]
6. In a school canteen, Ana can choose one meal from Adobo, Menudo or Tinola. For dessert, she can choose one from banana, papaya, pineapple or orange. How many different combinations can Ana order? [12]
7. Sonia has several pieces of five peso coins. What is the least amount of money she has if she was able to divide her coins into four groups with a different number of coins in each group? [Php50.00]
8. Nico took 2 hours and 40 minutes to paint his room. He finished at 12:30 PM. What time did he begin painting his room? [9:50 AM]
9. Ace, Kai, and Roy shared a pizza. Ace and Kai each had $\frac{3}{7}$ of the pizza. How much pizza did Roy have? [$\frac{1}{7}$]
10. What is the sum of all prime numbers between 30 and 50? [199]
11. Amy sold 60 pillows and Nina sold 80 pillows. The pillows were all sold for the same price. The total amount of money received was Php7,000. How much money did Nina receive? [Php4,000]

30-Second Questions [3 points each]

1. A jar contains white and yellow marbles. The number of white marbles is three times the number of yellow marbles. If there are 999 white marbles, how many marbles are there in the jar? [1,332]
2. A car's diesel tank was $\frac{9}{13}$ full. After travelling to one town, it is now $\frac{1}{3}$ full. If the tank can hold 26 gallons of diesel, how many gallons of diesel was used in travelling? [$9\frac{1}{3}$ gallons]
3. Samuel and Teresa are going to play a game using 25 centavo coins. Samuel changes all of his money to 25 centavo coins, then gives half of the coins to Teresa to play the game. How many 25 centavo coins did Samuel give to Teresa if he originally had one twenty peso bill, one ten peso coin, two five peso coin, and three one peso coin? [86 coins]
4. Two-sevenths of the children in an orphanage are girls. If there are 25 boys, how many more boys than girls are there? [15]
5. If $X + X + X = 21$ and $Y + Y + Y + Y = 36$. Find the value of $X \times Y$. [63]
6. String A is 75 cm long. String B is thrice as long as String A. String C is 42 cm shorter than String B. What is the average length of the three strings? [161 cm]

60 Seconds Questions [5 points each]

1. The amount of time, in hours, that Martin practiced playing guitar each day for 11 days is shown on the diagram below. How many hours in total did Martin practice over 11 days? Express your answer as a fraction in simplest form. (x represents 1 day) [$8\frac{1}{4}$ hours]
2. In the figure, all edges meet at right angles. Find the area. [294 cm²]
3. Find the area of the shaded region. [55 m²]
4. A painter mixed 11.4 quarts of white paint with 14.2 quarts of green paint. He poured the mixture equally into 4 cans. He used one can to paint the gate. How many quarts of paint did he have left? [19.2 quarts]
5. A rectangular tank 50 cm long, 20 cm wide, and 33 cm high is filled with water to a depth of 12 cm. How many more liters of water are be needed to fill the tank? [21 Liters]
6. What is the value of X in the sequence: 1, 1, 2, 3, 5, 8, 13, X, 34? [21]

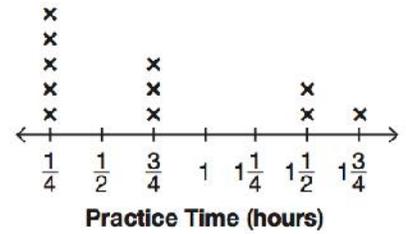
Clincher

1. From a batch of 2,500 microchips, 100 were selected at random and tested. If 5 of the microchips in the sample were found to be defective, about how many defective microchips would be expected in the entire batch? [125 microchips]
2. Arrange the following fractions from least to greatest: $\frac{3}{10}; \frac{5}{8}; \frac{2}{7}; \frac{3}{5}$ [$\frac{2}{7}; \frac{3}{10}; \frac{3}{5}; \frac{5}{8}$]
3. The area of the rectangle on the left is the same as the area of the triangle on the right. Find the perimeter of the rectangle. [72 cm]

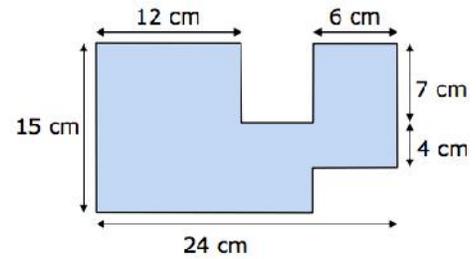
Do or Die

A rectangular tank with dimensions 50 cm, 20 cm, and 33 cm is filled with water. If the largest face of the tank is parallel to the ground, the height of the water is 12 cm. If the smallest face of the tank is parallel to the ground, what will be the height of the water? [30 cm]

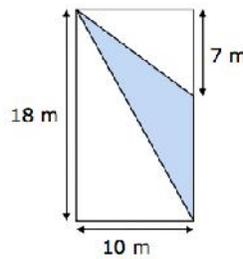
3.1. The amount of time, in hours, that Martin practiced playing guitar each day for 11 days is shown on the diagram below. How many hours in total did Martin practice over 11 days? Express your answer as a fraction in simplest form.



3.2. In the figure, all edges meet at right angles. Find the area.

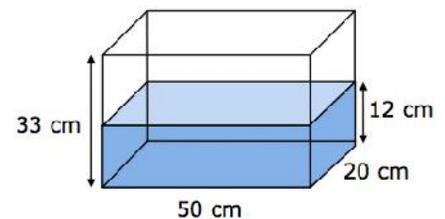


3.3. Find the area of the shaded region.



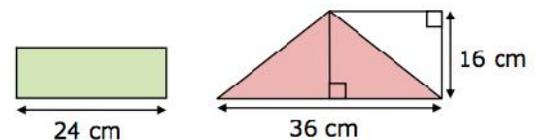
3.4. A painter mixed 11.4 quarts of white paint with 14.2 quarts of green paint. He poured the mixture equally into 4 cans. He used one can to paint the gate. How many quarts of paint did he have left?

3.5. A rectangular tank 50 cm long, 20 cm wide, and 33 cm high is filled with water to a depth of 12 cm. How many more liters of water can be filled in the tank?



3.6. What is the value of X in the sequence: 0, 1, 2, 3, 6, 11, 20, X, 68?

3.C3. The area of the rectangle on the left is the same as the area of the triangle on the right. Find the perimeter of the rectangle.



3.DoD. A rectangular tank with dimensions 50 cm, 20 cm, and 33 cm is filled with water. If the largest face of the tank is parallel to the ground, the height of the water is 12 cm. If the smallest face of the tank is parallel to the ground, what will be the height of the water?