

Metrobank-MTAP-DepEd Math Challenge 2018
Division Orals • Grade 5

15-Second Questions [2 points each]

1. What number divided by $\frac{1}{3}$ will produce 315? [945]
2. Write the sum $23 + \frac{7}{10} + \frac{1}{20} + \frac{9}{1000}$ as a decimal. [23.759]
3. If $173 \times 36 = 6228$, what is 1.73×3.6 ? [6.228]
4. What is the largest two-digit number which is divisible by 6 but not by 4? [90]
5. Write the reciprocal of 1.4 as a fraction in lowest terms. [$\frac{5}{7}$]
6. What number is halfway between $\frac{1}{5}$ and $\frac{1}{6}$? [$\frac{11}{60}$]
7. Eighteen is what percent of 48? [37.5]
8. The area of a rectangle is 12 sq m. If the width of the rectangle is $\frac{3}{2}$ m, what is its length? [8 m]
9. The area of a square is 1.69 sq cm. What is the length of each side? [1.3 cm]
10. Two-sevenths of the pupils in Vivian's school take a jeepney to school. If 600 pupils don't take the jeepney, how many pupils are there in Vivian's school? [840]
11. What is the value of 4032×2.5 ? [10080]

30-Second Questions [3 points each]

1. Calculate the product of the value of the digit 8 in 1 586 201 and the value of the digit 4 in 36.745. [3200]
2. Rico put some money in an investment that yields 6% profit. If Rico earned PhP750 in profit from the investment, how much did he invest? [PhP12 500]
3. What is the result when the sum of $\frac{7}{6}$ and $\frac{3}{4}$ is divided by their difference? [$\frac{23}{5}$ or $4\frac{3}{5}$]
4. A plate has diameter 10 inches. Calculate the area of the plate to the nearest square inch. [79]
5. A jar of cookies is $\frac{2}{3}$ full. Jason and his friends ate 15 cookies. The jar is now $\frac{3}{7}$ full. How many cookies fill the jar? [63]
6. Which is greater, $\frac{25}{7}$ or 5% of 72? [5% of 72 or 3.6]

1-Minute Questions [5 points each]

1. Compute $(191.116 + 29.156) \div 2.08$ [105.9]
2. The \sqrt{N} is the number which when multiplied by itself produces N . Estimate to the nearest hundredth $\sqrt{50}$. [7.07]
3. A rectangle has perimeter 24. If the length and width are whole numbers, how many possible areas are there for the rectangle and what is the smallest of these areas? [6 areas, 11]
4. What is the LCM of 112, 280 and 504? [5040]
5. The GCD of three numbers is 6 and their LCM is 270. What is the product of the three numbers? [9720]
6. The sum of a number and its reciprocal is $\frac{349}{90}$. If the number is greater than 1, what is its reciprocal? [$\frac{5}{18}$]

Clincher Questions

- C.1. Markers are put on the number line so that the spaces between consecutive whole numbers are divided into 20 equal parts. What number corresponds to the last marker before 10? Write your answer in decimal form. [9.95]
- C.2. If a number is multiplied by itself the result is 45A69. If the number is divisible by 3, what is the value of the digit A? [3]
- C.3. Three-eighths of the balls in a sack are red. If 20 red balls are added into the sack, $\frac{8}{13}$ of the balls will be red. How many balls were in the sack at the beginning? [32]

Do-or-Die Question

- DoD. What is the sum of all proper fractions with denominator less than 10? [18]

- 5.1.** Compute $(191.116 + 29.156) \div 2.08$
- 5.2.** The \sqrt{N} is the number which when multiplied by itself produces N . Estimate to the nearest hundredth $\sqrt{50}$.
- 5.3.** A rectangle has perimeter 24. If the length and width are whole numbers, how many possible areas are there for the rectangle and what is the smallest of these areas?
- 5.4.** What is the LCM of 112, 280 and 504?
- 5.5.** The GCD of three numbers is 6 and their LCM is 270. What is the product of the three numbers?
- 5.6.** The sum of a number and its reciprocal is $349/90$. If the number is greater than 1, what is its reciprocal?
- 5.C.3.** Three-eighths of the balls in a sack are red. If 20 red balls are added into the sack, $8/13$ of the balls will be red. How many balls were in the sack at the beginning?
- 5.DoD.** What is the sum of all proper fractions with denominator less than 10?