MMC
METROBANK-MTAP-DEPED MATH CHALLENGE

2018 Metrobank-MTAP-DepEd Math Challenge
Elimination Rounds
Grade 3

Name: _____ Score: _____

School: _____

Solve each item on a scratch paper. Write the answer in the blank.

_____1. Two weighing scales, Scale A and Scale B, are defective. Scale A adds 15 kg to the actual weight while Scale B multiplies the actual weight by 3. If a watermelon appears to weigh 12 kg in Scale B, how much would it weigh in Scale A?

_____2. If △, ●, and □ are whole numbers greater than 0 and if ●+●+●+□+□ = △+△ and ●+●+● = △, what is the smallest value of △?

_____3. Arrange the following numbers in decreasing order: 3,104; 3,401; 3,014; 3,410

_____4. Arrange the following fractions in descending order: $\frac{1}{2}; \frac{2}{3}; \frac{4}{5}; \frac{3}{8}$

_____5. The number 2,300 is rounded to the nearest _____.

_____6. Elena attended a symposium that lasted for 2 hours and 15 minutes. It ended at 11:25 AM. What time did the symposium begin?

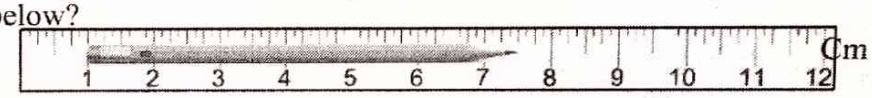
_____7. Elma gave her mother a picture album. There are 6 pictures in each page. If 23 pages are full and there are 3 pictures on the 24th page, how many pictures are there in the album?

_____8. Gregorio has two Php1,000-bills, four Php500-bills, one Php100-bill, and six Php50-bills in his wallet. How much money does he have in his wallet?

_____9. If November 27 is a Sunday, what day is December 3?

_____10. The area of a square is 169 square meters. How long is its side in centimeter?

_____11. How long is the pencil below?



_____12. Write the number 3,945 in words.

_____13. What is the sum of the first 7 two digit odd numbers?

_____14. What is the difference between the largest even four-digit number and the smallest odd four digit number?

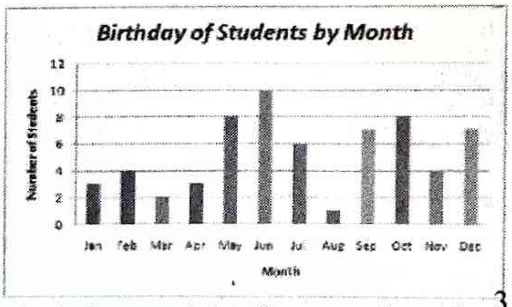
_____15. How many sides do 3 squares and 8 triangles have?

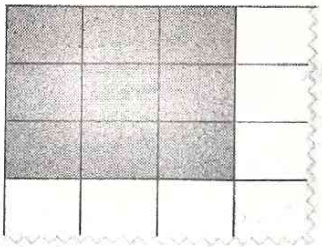
_____16. Teresa reads a book from pages 33 to 107. How many pages did she read?

_____17. Each box contains 8 apples, while each bag contains 5 oranges. How many fruits are there in 3 boxes and 4 bags?

_____18. Mara has 6 oranges. Albert has 6 more oranges that Mara. Chris has 6 times as many oranges as Albert. How many oranges does Chris have?

_____19. Teacher Rodora prepares birthday greeting cards for her students every year. The bar graph below shows the birthday distribution of her Grade 3 classes. How many Grade 3 students does Rodora have?





_____20. If the shaded part of the figure at above is $\frac{3}{7}$ of a whole, how many square units represent $\frac{2}{3}$ of a whole?

_____21. It was reported that in Baguio City, the temperature on Monday was as shown on the figure. By Tuesday, the temperature dropped by 4°C. What is the temperature on Tuesday?

_____22. Use the picture below to answer the question: What fraction of the balloons remains after 8 balloons pop?

_____23. Use the table below to answer the question.

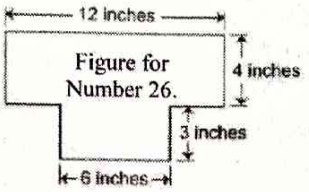
Child	Romeo	Celina	Minda	Gabriel
Height	120cm	142cm	1m	95cm

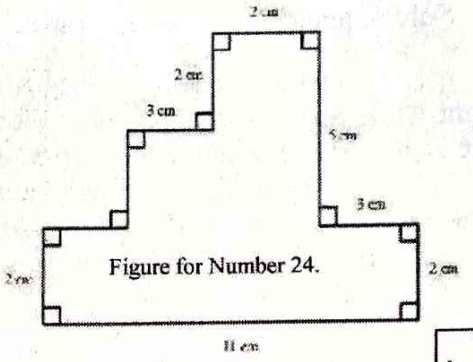
Arrange the children from tallest to shortest.

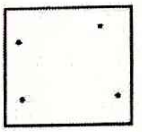
_____24. Determine the area of the figure at the side:

_____25. How many multiples of 17 are between 35 and 100?

_____26. Give the perimeter of the figure at the side:







_____27. A line can be drawn using two points. How many different lines can we draw using the 4 Shown at side?

_____28. Andres, a Grade 4 student, has to study from 1:00 PM to 4:30 PM to work on his 5 assignments. For better time management, he has to divide his time accordingly. How many minutes does he have to work on his assignment?

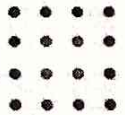
_____29. Color each section of the figure below so that no adjacent sections have the same color. What is the minimum number of colors you need?

_____30. Jack and Jill have 70 books together. If Jack gave Jill 5 books, then they have the same number of books. How many books did Jill have at the beginning?

_____31. What is the 20^{th} prime number?

_____32. Students from *Maginhawa Elementary School* donated old books to students of *Masigasig Elem School*. After distributing 17 books to each of the 11 classes, there are 5 books left. How many books were received by *Masigasig Elementary School*?

_____33. A rectangular garden is 20 meters long and 12 meters wide. If you place flower pots around the garden 1 meter apart, center to center, how many flower pots do you need? (There should be a flower pot at each corner of the garden.)



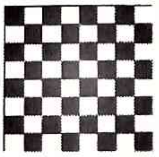
_____34. The following is a square array of 16 dots with 4 rows and 4 columns. The darker dots are on the outside of the array. If you use 169 dots to form a square array, how many dots are on the outside of the array?

_____35. Four people are standing in line. Camila is standing 3 meters behind Willy and 2 meters in front of Nancy. Miguel is standing 4 meters in front of Willy. What is the distance between Nancy and Miguel?

_____36. What is the smallest positive number divisible by 3, 4, 5, and 6?

_____37. To maintain orderliness, thirty-nine children line up in a row to get on a bus for a field trip. Mika is the 18th from the front. Jose is the 32nd from the back. How many children are there between Mika and Jose?

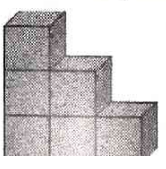
_____38. A drawing of a checkerboard is shown:



The length of each side of the checkerboard is 20cm. All of the black and white squares are the same size. What is the total perimeter of all the black squares in the checkerboard?

_____39. Ryan is playing blocks. He has built stairs that is 3-cubes tall as shown in the diagram below. How many more cubes does he need to make the stairs 10-cubes high?

_____40. Larry wants to organize his toy cars by putting them in boxes. If he places 3 cars in each box, he has 2 left. If he places 4 cars in each box, he has 2 left. If he places 5 cars in each box, he has 2 left. What is the minimum number of toy cars Larry has?



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Elimination Round - Grade 3

1. 19 kg
2. 6
3. 3,410
3,401
3,104
3,014
4. $\frac{4}{5} > \frac{2}{3} > \frac{1}{2} > \frac{3}{8}$
5. Hundred
6. 9:10 AM
7. 141
8. Php 4,400
9. Saturday
10. 1,300 cm
11. 6.5 cm
12. Three thousand nine hundred forty five
13. 119
14. 8,997
15. 36
16. 75
17. 44
18. 72 oranges
19. 63 students
20. 14
21. 16°C
22. $\frac{5}{9}$
23. Celina
Romeo
Minda
Gabriel
24. 41 cm^2
25. 3
26. 38 inches
27. 6
28. 210
29. 3
30. 30
31. 71
32. 192
33. 64
34. 48
35. 9 meters
36. 60
37. 9
38. 320 cm
39. 49
40. 62