## Assessment Tools for Teaching and Learning

## Mathematics

## First Name

$\square$

## Last Name



## School Name



## Room Number / Class

$\square$

| Choose a circle to show how much each sentence is <br> like you | Very <br> Unlike <br> Me | Unlike <br> Me | Like Me |
| :--- | :---: | :---: | :---: | :---: | | Very |
| :---: |
| Like Me |

1. It is very important to me to be good at maths.
2. I try to get more maths answers right than my friends.
3. I like hard, challenging maths.
4. I do as much school work as possible in maths.
5. I like to help my friends with their maths school work.
6. I like it when the maths examples are hard.

## Practice Questions

These practice questions are to help you understand how to show your answer for different types of questions.

P01. Who is holding a card with an even number on it?
BenEruArohaDavina

P02. Complete this number pattern.
$2,4, \ldots, \ldots, 10$

P03. What fraction of this circle is shaded?

$\square$
$\square$

P04. Match the sentence with the correct shape.
$\square$ 1. I have three sides
2. I have 4 sides
a.

c.
b.



P05. Which numbers make this number sentence TRUE?

$$
2+\phi>5
$$

```
1
```2
3

4
5

P06. Put the numbers 1, 2, 3, and 4 in the boxes to order these numbers from biggest (1) to smallest (4).
\(\square\)
\(\square\)2
\(\square\)0

P07. Select whether the following statements are True or False.

In the number 213 , the value of 1 is ten.
In the number 504, the value of 5 is fifty.
FALSE
\(\qquad\)
01. According to the graph below, which person's sales were closest to \(\$ 400\) for the month?

SALES FOR ONE MONTH

\(\qquad\) Harriet
CarlJason
Sammie
02. Which of these numbers is the smallest?91.36988.52188.999
\(\sigma\)
89.001
03. Jenna bought 4 sets of light bulbs. The bulbs come in sets of 4 . How many light bulbs did she buy in all?
48
\(\sigma\) 16
04. In which figure are one-half of the dots black?




05. Which digit is in the hundreds place in the number 3174 ?1347
06. What fraction shows the number of blocks that are grey?
\(\frac{4}{6}\)
\(\frac{4}{10}\)
\(\frac{6}{10}\)
07. The list below shows the number of trees in each side of a house. Which graph correctly shows how many trees are planted in each place?
\begin{tabular}{|l|c|}
\hline \multicolumn{1}{|c|}{ Place } & \begin{tabular}{c} 
Number of \\
Trees
\end{tabular} \\
\hline Front & 3 \\
\hline Left Side & 9 \\
\hline Back & 12 \\
\hline Right Side & 9 \\
\hline
\end{tabular}

0

\(\bigcirc\)
08. Which number has a 9 in the tens place?936
09. What number is four hundred and five and three-tenths?
\(\sigma\)
45.3
\(\sigma\)
405.3
\(\sigma\)
453
\(\sigma\)
4005.3
10. Lisa ate \(\frac{1}{8}\) of the pizza.

How much of the pizza did she eat?


\(\sigma\)

\(\sigma\)

\(\sigma\)

11. Part A represents 1 pie.

Which number is represented by Part B ?


PART B
0.450.544.5
\(\sigma\) 5.4

\section*{Use the following information to answer questions 12 to 13.}

Harold, Liu and Simima collect marbles.
Finish these sentences about Liu, Simima, Harold and their marbles.

12.

There are \(\qquad\) marbles altogether.
13.
\(\qquad\) has more marbles than \(\qquad\)
but fewer than \(\qquad\) .

\section*{End of Section}
14. Year 4 students went to a concert in 8 buses. Each bus took 45 students. How many students went to the concert?3203603803240
15. On the number line below, what number does point \(M\) represent?
\(36 \frac{2}{5}\)\(37 \frac{1}{5}\)\(38 \frac{7}{10}\)\(39 \frac{1}{10}\)
16. Which number sentence is TRUE?
\(\sigma\)
\[
\begin{aligned}
& 549>550 \\
& 549>552 \\
& 549>539
\end{aligned}
\]
17. What is the average temperature for October?
\(45^{\circ} \mathrm{F}\)\(50^{\circ} \mathrm{F}\)\(55^{\circ} \mathrm{F}\)\(60^{\circ} \mathrm{F}\)
18. According to the map in the figure below, which streets appear to be parallel to each other?
Park and MainTyler and Maple
Park and Tyler
Main and Tyler
19. Kere has read the first 78 pages in a book that has 130 pages.

Which number sentence would Kere use to find the number of pages she must read to finish the book?
( \(\mathrm{N}=\) number of pages to be read)\(130+78=\mathrm{N}\)
\(\mathrm{N}-78=130\)\(130-78=\mathrm{N}\)
\(130 \div 78=\mathrm{N}\)
20. Alan says that if a figure has four sides, it must be a rectangle. Gina does not agree. Which of the following figures shows that Gina is correct?
\(\qquad\)




21. How many lines of symmetry does the figure below have?
421
22. Tom read 11 books in Year 1, 16 books in Year 2, and 18 books in Year 3. Estimate how many books Tom has read.10305070
23. Which number is missing from the numerical pattern?

20, 36, 52, \(\qquad\) 84, 100, 116
\(\qquad\) 646876
\(\sigma\) 78
24. Look at the four blocks stacked below. What shape is formed by the shaded parts of the blocks?
A triangleA squareA pentagon
A hexagon
25. Luis had two apples and he cut each apple into fifths. How many pieces of apple did he have?\(\frac{2}{5}\)2510
26. What motion was used to move the triangle from \(A\) to \(B\) ?


A slideA flipA rotation (turn)It was not moved by any of these motions
27. Mr Hall is providing orange slices for the 27 students in his class. Each student will receive 2 slices.
He plans to cut each orange into 4 slices.
How many oranges will Mr Hall need?11121314
28. Kiri conducted a survey. She asked every student in Year 9, "What is your favourite subject or activity at school?"
She recorded her results in the table.
Kiri decided to display her data in a strip graph, using the key below.
Which strip graph BEST represents Kiri's data?
Table
\begin{tabular}{|c|c|c|c}
\hline Subject/Activity & No. of students & Key & English \\
\cline { 1 - 1 } English & 5 & & Maths \\
Maths & 15 & & Sport \\
Sport & 15 & & \\
Lunch & 5 & & Lunch \\
Other & 10 & & Other \\
\hline
\end{tabular}


Use the following information to answer question29..
MAP OF KURANUI

29. Michelle rode her bike along Elm Drive from the high school to Otahuhu Station. Use the scale to find out how far she rode.
Michelle rode200 m
\(\sigma\)
280 m2000 m2800 m

\section*{End of Section}
30. The line plot below shows the number of books each student in Marcia's class read over the summer.
How many more students read exactly 3 books than students who read exactly 7 books?

\section*{Number of Books Read}

31. Six students bought exactly enough pens to share equally among themselves. Which of the following could be the number of pens they bought?4648
\(\sigma\) 50
\(\sigma\) 52
32. Hiram read about a "Buy 2, Get 1 Free" sale on socks. If he buys 2 pairs of socks, he will get the 3rd pair free. He started the list below to find out how many free pairs of socks he would get.
What is the least number of pairs of socks Hiram would have to buy in order to get 4 free pairs?
\begin{tabular}{c|c} 
Buy & Free Pairs \\
\hline 2 & 1 \\
3 & 1 \\
4 & 2 \\
5 & 2
\end{tabular}

789
\(\sigma\) 12
33. Carl has 3 empty egg cartons and 34 eggs. Each carton holds 12 eggs. How many more eggs are needed to fill all 3 cartons?
34. Which of the following shows the result of flipping (reflecting) the triangle over the line \(m\) ?

\(\sigma\)

\(\sigma\)

\(\sigma\)

\(\sigma\)




Use the following information to answer question35..
Matthew had 28 marbles and Robert had 14 marbles.

35. How many marbles does Matthew have to give Robert so that they both have the same amount of marbles?
36. A number machine takes a number and operates on it. When the Input Number is 5 , the Output Number is 9 , as shown below.
When the Input Number is 7 , which of these is the Output Number?
25
37. Bill is 42 inches tall. Tom is twice as tall as Bill. How tall are the two boys together?
\(\qquad\) 72 inches84 inches126 inches
\(\sigma\)
168 inches
38. Rhea took a survey of the students in her class to find out their career interests. The results are shown in the graph below.
The mode of the data is associated with which career?


Health Related
Engineering/Science
Education
\(\sigma\)
Computers
39. Tran and Rajesh completed a class survey on favourite fizzy drinks.

The results were recorded in this table.
The survey shows us that
\begin{tabular}{|l|c|c|}
\hline FAVOURITE DRINK & BOYS & GIRLS \\
\hline Supa Kola & 4 & 1 \\
\hline Top Pop & 4 & 4 \\
\hline Dewy Mist & 5 & 2 \\
\hline Lemonade & 2 & 1 \\
\hline Don't like fizzy drink & 1 & 3 \\
\hline
\end{tabular}
more girls than boys drink fizzy drink.Dewy Mist is the most popular drink.everybody likes fizzy drink. lemonade is the least popular fizzy drink.
40. Which number goes into the box to make the statement TRUE?
\[
4 \square 76192<4578136
\]7

638
41. Sam listed his scores from history class.

84, 86, 83, 78, 92, 87, 92, 90, 88, 86
Which line plot correctly displays his scores?


42. What is 18565 rounded to the nearest thousand?18000186001900020000
43. Helen made a spinner divided into four parts.

Helen then numbered the parts 1,2,3 and 4.
Two of the parts had the same area.
She used the spinner 100 times and recorded the results in a table.
From Helen's results, the two numbered parts on the spinner that are MOST likely to have the same area are


1 and 2.
\(\sigma\)
1 and 3.
2 and 4.
\(\sigma\)
3 and 4.
44. These figures form a pattern.


Which of the figures BEST continues the pattern?
\(\qquad\)



\(\sigma\)

45. Sharice scored the following numbers of points in 5 dart games.

88, 96, 112, 135, 144
What is the median of these numbers?5688
\(\sigma\) 112115
46. Which of the following is a single reflection of figure \(N\) over the \(y\)-axis to form \(N^{\prime}\) ?
\(\sigma\)





47. This net represents the surface area of a solid figure.

Which is a drawing of the figure?

\(\sigma\)



48. For the spring concert, chorus members may wear blue, white, or black pants and black, red, or white T-shirts.
How many different outfits can be made?3
\(\sigma\)
8
\(\sigma\)
69
49. Which of these could be the rule for the input/output machine shown below?


Input times 3 equals output.
Input plus 4 equals output.
Input plus -4 equals output.
Input divided by 3 equals output.
50. Christy has 88 photographs to put in her album.

If 9 photographs will fit on each page, how many pages will she need?8
\(\sigma\)
910
\(\sigma\)
11
51. The letters \(S\) and \(T\) stand for numbers.

If \(S-100=T-100\), which statement is TRUE?\(S=T\)\(S>T\)\(S=T+100\)\(S>T+100\)```

