Assessment Tools for Teaching and Learning

Mathematics

First Name	
)
Last Name	
School Name	
Room Number / Class	

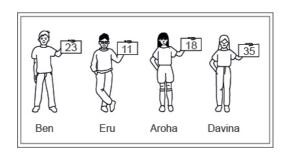
Test Name: 2017 MAT SW 1.3(P) Owner Name: Neelam Taneja Date Printed: 30 Mar 2017

Choose a circle to show how much each sentence is like you	Very Unlike Me	Unlike Me	Like Me	Very Like Me
	1	2	3	4
01. It is very important to me to be good at maths.				
02. I try to get more maths answers right than my friends.				
03. I like hard, challenging maths.				
04. I do as much school work as possible in maths.				
05. I like to help my friends with their maths school work.				
06. I like it when the maths examples are hard.				

Practice Questions

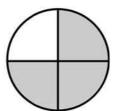
These practice questions are to help you understand how to show your answer for different types of questions.

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



- Ben
- Eru
- Aroha
- Davina
- **P02.** Complete this number pattern.
- 2, 4, ____, 10

P03. What fraction of this circle is shaded?



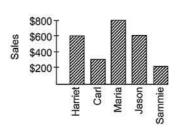
P04.	Match the sentence with the correct shape.
	1. I have three sides
	2. I have 4 sides b. c.
P05.	Which numbers make this number sentence TRUE ?
	2 +★> 5
□ 1	
□ 2	
□ 3	
□ 4	
□ 5	
P06. to sm	Put the numbers 1, 2, 3, and 4 in the boxes to order these numbers from biggest (1) nallest (4).
	3
	7
	2
	0

In the number 213, the value of 1 is ten.	TRUE	FALSE
In the number 504, the value of 5 is fifty.		

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

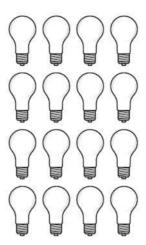
01. According to the graph below, which person's sales were *closest* to \$400 for the month?





- Harriet
- Carl
- Jason
- Sammie
- 02. Which of these numbers is the smallest?
- 91.369
- 88.521
- 88.999
- 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?



- \bigcirc 4
- **8**
- **16**

04. In which figure are one-half of the dots black?

- 0
- 0 0
- 0 •

05.	Whic	h digit is	in the	hund	dreds	place	in the	e num	ber 3	174?	
	> '	1									
) ;	3									
		4									
		7									
06.	What	t fraction	shows	s the	numb	er of	block	s that	are g	rey?	
) <u>.</u>	<u>4</u>									
) <u>-</u>	$\frac{4}{6}$ $\frac{4}{10}$									
		$\frac{\frac{4}{6}}{\frac{4}{10}}$									
		$\frac{\frac{4}{6}}{\frac{4}{10}}$									

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?

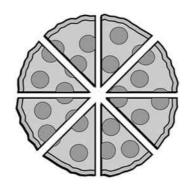
Place	Number of Trees
Front	3
Left Side	9
Back	12
Right Side	9

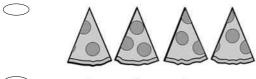
	rrees
Front	*
Left Side	999
Back	**
Right Side	**
Each 🖤 n	neans 3 trees.
2	Trees
Front	*
Left Side	**
Back	**
Right Side	**
Each 🖑 n	neans 3 trees.
	Trees
Front	Trees
Front Left Side	Trees
	Trees

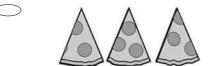
08. Which number has a 9 in the tens place?

- **29**
- 95
- 936

- 09. What number is four hundred and five and three-tenths?
- **45.3**
- 405.3
- **453**
- 4005.3
- **10.** Lisa ate $\frac{1}{8}$ of the pizza. How much of the pizza did she eat?



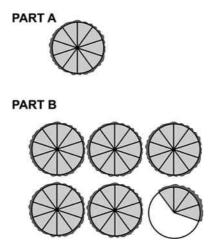








11. Part A represents 1 pie. Which number is represented by Part B?



- O.45
- 0.54
- **4.5**
- **5.4**

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 marbles altogether.

13.

_____ has more marbles than _____

but fewer than _____.

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?

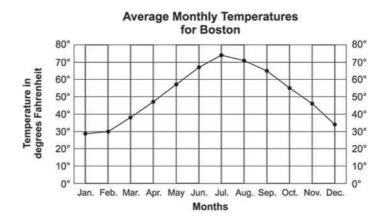
- 320
- 360
- 380
- 3240

On the number line below, what number does point *M* represent?



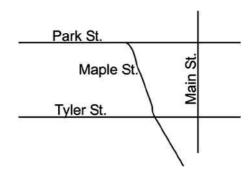
- $\begin{array}{ccc}
 & 36\frac{2}{5} \\
 & 37\frac{1}{5} \\
 & 38\frac{7}{10} \\
 & 39\frac{1}{10}
 \end{array}$

- 16. Which number sentence is TRUE?
- **S49 > 550**
- 549 > 552
- 549 > 539
- 17. What is the average temperature for October?



- 45°F
- 50°F
- ─ 60°F

18. According to the map in the figure below, which streets appear to be parallel to each other?



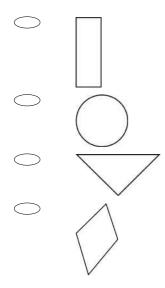
- Park and Main
- Tyler and Maple
- Park and Tyler
- Main and Tyler

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?

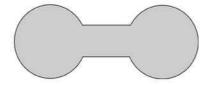
(N = number of pages to be read)

- 130 + 78 = N
- N 78 = 130
- 130 78 = N
- $130 \div 78 = N$

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?



21. How many lines of symmetry does the figure below have?

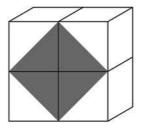


- 6
- **4**
- 2
- \bigcirc 1

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.

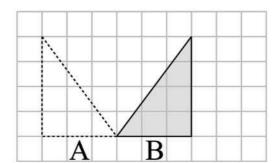
- **10**
- **30**
- **50**
- **70**

- **23.** Which number is missing from the numerical pattern? 20, 36, 52, ____, 84, 100, 116
- **64**
- **68**
- **76**
- **78**
- **24.** Look at the four blocks stacked below. What shape is formed by the shaded parts of the blocks?



- A triangle
- A square
- A pentagon
- A hexagon
- **25.** Luis had two apples and he cut each apple into fifths. How many pieces of apple did he have?
- $\frac{2}{5}$

26. What motion was used to move the triangle from A to B?



- A slide
- A flip
- A 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?

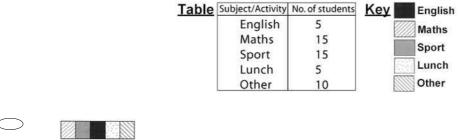
- \bigcirc 11
- **12**
- **13**
- \bigcirc 14

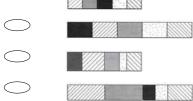
28. Kiri conducted a survey. She asked every student in Year 9, "What is your favourite subject or activity at school?"

She recorded her results in the table.

Kiri decided to display her data in a strip graph, using the key below.

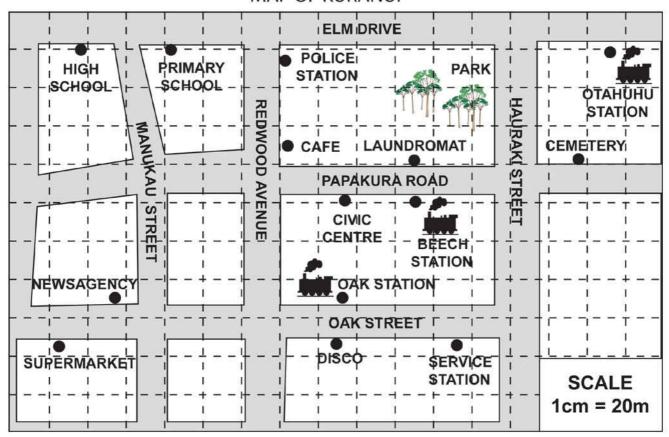
Which strip graph **BEST** represents Kiri's data?





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

End of Section

280 m

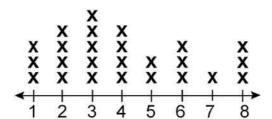
2000 m

2800 m

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?

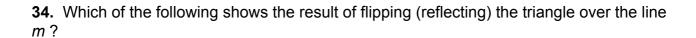
Number of Books Read

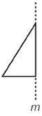


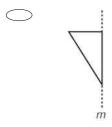
Each X represents 1 student.

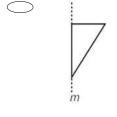
- \bigcirc 4
- \bigcirc 5
- \bigcirc 6
- \bigcirc 7

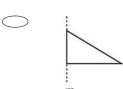
	students bought exactly enough pens to share equally among themselves. f the following could be the number of pens they bought?
	46
	48
	50
	52
will get t he woul	the <i>least</i> number of pairs of socks Hiram would have to buy in order to get 4 free Buy Free Pairs 2 1 3 1 4 2 5 2
	7
	8
	9
	12 I has 3 empty egg cartons and 34 eggs. Each carton holds 12 eggs. Iny more eggs are needed to fill all 3 cartons?
	2
	3
	4
	6

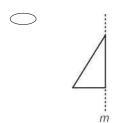


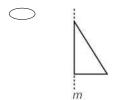






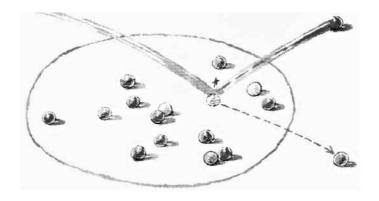






Use the following information to answer question35..

Matthew had 28 marbles and Robert had 14 marbles.

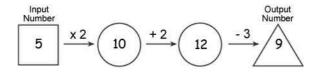


35. How many marbles does Matthew have to give Robert so that they both have the same amount of marbles?

End of Section

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.

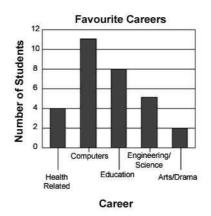
When the Input Number is 7, which of these is the Output Number?



- \bigcirc 11
- **13**
- \bigcirc 14
- **25**

- **37.** Bill is 42 inches tall. Tom is twice as tall as Bill. How tall are the two boys together?
- 72 inches
- 84 inches
- 126 inches
- 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
- 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

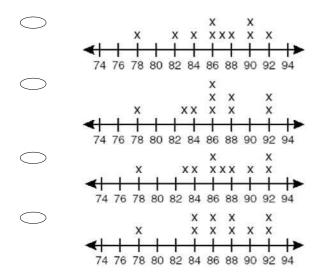
FAVOURITE DRINK	BOYS	GIRLS
Supa Kola	4	1
Тор Рор	4	4
Dewy Mist	5	2
Lemonade	2	1
Don't like fizzy drink	1	3

_	
	Down Mich is the most popular dripk
	Dewy Mist is the most popular drink.

40. Which number goes into the box to make the statement **TRUE**?

- **7**
- 6
- 3
- **8**

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 18 565 rounded to the nearest thousand?
- **18 000**
- **18 600**
- **19 000**
- **20 000**

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

Number showing on the spinner	1	2	3	4
Frequency	26	16	24	34



- 1 and 2.
- 1 and 3.
- 2 and 4.
- 3 and 4.

44. These figures form a pattern.











Which of the figures **BEST** continues the pattern?







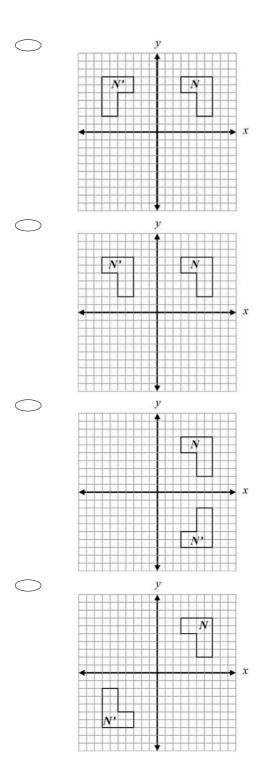






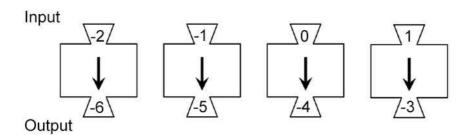
umbers of points in 5 dart games. ers?

46. Which of the following is a single reflection of figure N over the y-axis to form N '?



47. This net represents the surface area of a solid figure. Which is a drawing of the figure?
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?
○ 8
○ 6
9

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**
- 9
- O 10
- \bigcirc 11

51. The letters S and T stand for numbers. If S - 100 = T - 100, which statement is **TRUE**?

- \bigcirc S = T
- S > T
- S = T + 100
- \bigcirc S > T + 100