Summary

	Test Identificat	ion		
Name	2020	MAT SW 1.2		
Date Created	29 Jai	ו 2020 ו		
Date Modified	16 Ma	ır 2020		
Subject	Mathe	matics		
Status	SCOF	RED		
Sequence Number	10050	33		
Total Test Time	57 mir	nutes		
Delivery Method	Onscr	een		
	Curriculum Str	and		
Number Sense & Operations	11 Numb	er Knowledg	e	12
Statistics	11 Algeb	ra		12
	Curriculum Le	vel		
2B 12	2P 11		2A	15
3B 2	3P 1	J J	3A	4
	Cognitive Proces	ssing		
Surface	24 Deep			22
	Slider Setting	js		
Strands		Level		
			N/loct	
Number Knowledge	Most	Level 2	-	
Number Knowledge Number Sense & Operations	Most Most	Level 2 Level 3	Few	
Number Knowledge Number Sense & Operations Algebra	Most Most Most	Level 2 Level 3	Few	

Marking Guide : 2020 MAT SW 1.2

Q.No	Marking Key
1	b
2	а
3	а
4	b
5	C
6	b
7	b
8	C
9	C
10	d
11	C
12	a
13	d
14	b
15	c
16	C
17	C
18	b
19	C
20	b
21	C
<u>22</u>	70c
23	a
24	b
25	b
26	C
<u>27</u>	T + 8 and T + 10 (both for 1 mark) 'Must be in order stated in Answer Key.'
28	b
29	b
30	C
31	d
32	C

Instructions

Questions Not Answered: Enter a dash (-).

Underlined Questions e.g. <u>10</u>: Use teacher judgement. Give 1 if answer matches marking guide (unless otherwise instructed). For incorrect answers give 0 (zero).

All other Questions: Enter the response chosen by the student using letters. For example, 'a' for the first option; 'b' for the second option; 'c' for the third option and so on.

Q.No	Marking Key	
33	a	
34	b	
35	b	
36	C	
37	C	
38	b	
39	a	
<u>40</u>	191 collector cards	ŕ
<u>41</u>	2/5 or 3/5 'either answer acceptable for 1 mark'	7
42	Indicates that the team performed very well. The points scored against them were confined very much to the lower end of the scale while the points they scored themselves were more widespread. 'Any equivalent answer for 1 mark.'	
43	c	
<u>44</u>	4	
45	a	
<u>46</u>	1, 3 'Both correct for 1 mark (K and M)'	

Instructions

Underlined Questions e.g. <u>10</u>: Use teacher judgement. Give 1 if answer matches marking guide (unless otherwise instructed). For incorrect answers give 0 (zero).

All other Questions: Enter the response chosen by the student using letters. For example, 'a' for the first option; 'b' for the second option; 'c' for the third option and so on.

Questions Not Answered: Enter a dash (-).

OMINISLL

Choose a circle to show how much each sentence is Very Unlike Like Me Very Unlike Like Me like you Me Me 1 2 3 4 01. I like maths at school. \bigcirc 02. I am good at maths. **03.** My teacher thinks I am good at maths. **04.** My Mum and Dad think I am good at maths. 05. I enjoy doing maths in my own time (not at school). 06. I enjoy doing things in maths that I haven't tried before.

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?



CREE

- O Ben
- O Eru
- O Aroha
- O 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.



P05. Which numbers make this number sentence TRUE?



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



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

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

CRE MINIA

Use the following information to answer questions 01 to 02.

Central School had a bottle collection. Children in each class brought empty bottles to school. The principal made a bar graph of the number of bottles from five classes.



01. Which class collected 45 bottles?

- Miss Barber's class
- Mr Chyn's class
- Mrs Friedman's class
- Mr Mack's class \bigcirc
- 02. Which two classes collected exactly 80 bottles?
- Miss Barber's and Mrs Friedman's classes
- Miss Barber's and Mr Mack's classes
 - Mrs Friedman's and Miss Gonzalez's classes
- Miss Gonzalez's and Mr Mack's classes

03. 1, 10, 100, 1,000, _

If this pattern of numbers continues, what should be the next number in the pattern?

\bigcirc	10 000
\bigcirc	1110

- ─ 1100
- ◯ 1001

04. Which of these numbers is the smallest?

91.369

88.521

- 88.999
- 89.001

18

20

23

 \bigcirc

05. The table below shows the number of paddles Mr Watson must order for different numbers of canoes.

If the pattern in the table continues, how many paddles must be ordered for 10 canoes?

K

Number of Canoes	2	4	6	8	10
Number of Paddles	4	8	12	16	?

06. Each small square is equal to 1. There are 10 small squares in each strip. There are 100 small squares in each large square. What number is shown?



08. Each small square on the grid is 1 square unit.

How many square units are needed to make the shaded figure?

- ◯ 5
- **9**
- ─ 10
- O 13

2

3

4

09. Kayla has these strawberries. She will give four strawberries to each of her three friends.

KÉ

How many strawberries will be left for Kayla?

10. Kara used 1 yellow hexagon and 3 green triangles to make the clown shown below. How many green triangles would she use to make 5 clowns?



12. Which number sentence can be used to solve the problem below?

Maya bought 12 packages of light bulbs. There were 2 light bulbs in each package. How many light bulbs did Maya buy?

CR'

\bigcirc	12 x 2 =
\bigcirc	12 ÷ 2 =
\bigcirc	12 + 2 =
\bigcirc	12 - 2 =

13. In which number does the 7 have the greatest value?

\bigcirc	32 704
\bigcirc	32 407
\bigcirc	32 576
\bigcirc	37 403

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



15. Sam tallied his friends' favourite flavour of ice cream. Which of the following graphs shows the same information as Sam's tally chart?

Favourite Flavours				
Flavour	Number			
Vanilla				
Chocolate	₩I			
Strawberry				



16. The table shows how much money Henry's Produce Store can make by selling boxes of fruit.

Number of Boxes Sold	Money Made
1	\$4
3	\$12
5	\$20
7	\$28
9	

If the pattern in the table continues, how much money can the store make by selling 9 boxes?

\bigcirc	\$30
\bigcirc	\$32
\bigcirc	\$36
\bigcirc	\$40

17. The pictogram below shows the amount of money each Year 4 class raised for an animal shelter.

Mr Powell's class raised \$20 and Mr Roper's class raised \$30. How much does each dollar symbol represent?

Class	Amount Raised
Ms. Smith	\$\$\$\$\$\$
Mr. Powell	\$\$\$\$
Ms. Carly	\$\$\$\$\$\$\$\$
Mr. Roper	\$\$\$\$\$\$

Amount Raised by Each Class



18. Which two figures have an equivalent fraction shaded?



CREE

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

19. What is the missing number in the pattern? 94, ____, 106, 112

- 96
 98
 100
- ─ 102

20. What number is four hundred and five and three-tenths?



21. What is the missing factor?



CREE

- 24
- 6
- **_____** 20

End of Section

Use the following information to answer question22..

Peter had a \$2 coin and bought an ice block for \$1.30.

22. How much change should Peter get?

23. How many of the following kites have a 7 in the ones place?



24. The table below shows the number of loads of wood Mr Clark sold each day for four days.

Which of the following shows this information correctly graphed?

Loads c	of Wood Sold
Day	Number of Loads
Monday	27
Tuesday	16
Wednesday	24
Thursday	13



25. The table shows the number of coloured pencils needed for different numbers of students.

If each student gets the same number of pencils, how many are needed for 6 students?

Coloured	l Pencils
Number of Students	Number of Pencils
1	4
2	8
3	12

─ 22

_____ 24

- ─ 26
- ─ 27

26. Pete earns fifty cents for doing chores each week. The chart below shows his savings so far.

If Pete continues to save at this rate, how much money will he have saved at the end of Week 8?

	_	Pete's S	Savings
	4	Week	Money
			Saved
		1	\$0.50
		2	\$1.00
		3	\$1.50
		4	\$2.00
-			
\bigcirc	\$3.00		
\bigcirc	\$3.50		
\bigcirc	\$4.00		
\bigcirc	\$4.50		

27. There are six houses in Hill Street.

The first house is numbered T, the second house is numbered T + 2 as shown below.



What numbers do the last two houses in Hill Street have?

_____ and _____

28. The graph shows the heights of four girls.

The names are missing from the graph. Debbie is the tallest. Amy is the shortest. Dawn is taller than Sarah.

How tall is Sarah?



29. What is 583 607 rounded to the nearest hundred?

- 583 000
 583 600
 583 700
- O 84 000

30. By how much would the value of 5647 be decreased if the 5 were replaced by a 2?

- **○** 3
- ◯ 300
- ◯ 3000
- ─ 30 000

31. Which **BEST** describes the location of point Z on the number line shown below?



32. The daily start times for showing a movie are listed below. If the pattern continues, what is the start time for the 4th show?

Show	Start Time
1st	2:00 p.m.
2nd	3:30 p.m.
3rd	5:00 p.m.
4th	?

CRE

- 5:30 pm
- 6:00 pm
- 6:30 pm
- 7:00 pm

33. Carmen bought these three things. What was the total cost of these three items?



34. Which statement is TRUE?

- ─ 352 > 759
- ─ 442 > 436
- 518 > 819
- 883 < 794
- **35.** Look at the pattern of shapes shown below.

If the pattern continues, what will the next two shapes look like?



36. On a flight from Los Angeles to New York, the cost of a fare was \$400. Every seat was sold.

What additional information do you need to find the total for all fares?

- O None
- The number of employees on the plane
- O The number of passenger seats on the plane
- The distance from Los Angeles to New York
- **37.** Which number belongs in the box on the number line shown?



38. The bar graph shows the number of different kinds of birds that Karen saw at her bird feeder last week.

How many more robins than woodpeckers did she see?



39. For a class project, Anita compared the price of a medium-sized box of Superflakes cereal at five different stores. All the prices were recorded on the same day. The graph below shows the prices she recorded.

Which is *closest* to the price of the box of cereal at Store #2?



CRE

- \$1.65
- **\$1.51**
- \$1.13
- \$1.02

40. Lachlan had 240 Rugby collector cards. He gave 55 of these to his brother and then bought 6 more collector cards.

To find out how many collector cards he had, Lachlan did this 240 - 55 + 6

How many collector cards did Lachlan now have?

41. This block of chocolate is made up of five smaller pieces.



What fraction of the block has been removed?

Use the following information to answer question42..

This back-to-back stem-and-leaf graph shows the number of points a rugby league team scored and the number of points scored against them in one season.

Points against		Points scored
6, 6, 4, 4, 0, 0	0	6
8, 8, 6, 4, 4, 3, 2, 2, 2, 2, 0	1	2, 4, 4, 8, 8
9, 8, 6, 4, 2, 2 ,2, 2, 0	2	0, 4, 4, 6, 6, 7, 8
2	3	0, 2, 6, 8, 8
	4	0, 2, 2
	5	0, 4, 4, 6
	6	2. 6.

42. Using the information in the back-to-back stem-and-leaf graph how do you think the team performed in this season?

	_
	_
CTH III	
MIND OF	
End of Section	

43. Sam listed his scores from history class. 84, 86, 83, 78, 92, 87, 92, 90, 88, 86 Which line plot correctly displays his scores?



44. The temperature was -5°. It rose 9°.

What is the temperature now?

45. The list shows the scores achieved by each member of Jaime's discussion group on the last test.

CREE

71, 80, 62, 93, 68, 87, 73, 78

Which stem-and-leaf plot correctly displays the information?



46. Which shapes have line symmetry?



Please provide these instructions to all staff involved with administering e-asTTle online.

Before the testing session

1. Make sure students have the right devices and browsers installed

Unsupported devices may result in the test not displaying correctly and affect students' scores.

Desktop/Laptop

- Windows, Mac or Chromebook
- Minimum window width: 1280 pixels
- Windows devices need up-to-date Edge, Chrome, Firefox or IE11
- Windows tablets/hybrids e.g., Surface Pro must have a keyboard attached
- Mac devices need recent Chrome or Safari

Large Tablets (9"+)

- iPads: iOS 10+ with Safari
- Androids: Large tablet e.g., Samsung Galaxy Tab 4. Must have Android 5+ and latest Chrome
- Minimum window width: 768 pixels

iPad Minis and small Androids must not be used.

More information on device requirements and the underlying rationale is available on the help site.

2. Sit the Practice Test

<u>A practice test for each subject</u> is available. These are also available in the Student Portal (no login required). Practice tests are designed to familiarise you and your students with e-asTTle online before sitting a real test. Each practice test contains attitude questions, look-over time and 5-8 questions designed to be relatively simple to answer. <u>Teacher scripts</u> are available for practice tests.

3. Ensure you have student login information

More information on accessing student logins and resetting passwords is available on the help site.

4. Check if calculators are required (Maths/Pāngarau)

Tests with questions at mostly Level 5 and 6 require the use of calculators. Tests with questions at mostly Levels 2 to 4 do NOT require a calculator.

During the testing session

- 1. Check equipment
- Make sure students' devices are charged.
- Make sure students have scrap paper and a pen/pencil for working, calculators (if needed) and a quiet activity they can continue with if they finish early.
 e-astile

2. Read the Test Details to students

Once students select a test, they will see the test details page (example shown on right).

Read through this page aloud with your students.

L4 Algebra		Available: 3 Due: 3	1/10/2015; 11:28 AM 1/10/2015; 12:42 PM
This is a 28 question Ma	athematics test.		
What to expect			
1. Some questions on	n how you feel about Ma	hematics.	
 Some questions on 2 minutes of look-o 3 minutes to answ 	n how you feel about Ma over time. This is your sn wer 28 questions.	hematics. eak peek of the test.	
Some questions or 2. 2 minutes of look-o 3. 30 minutes to answ C Don't forget to scro	n how you feel about Ma over time. This is your sn wer 28 questions.	hematics. sak peek of the test.	_
Some questions or 2. 2 minutes of look-o 3. 30 minutes to answ O Don't forget to scro	n how you feel about Ma over time. This is your sn wer 28 questions.	hematics. eak peek of the test.	
1. Some questions or 2. 2 minutes of look-o 3. 30 minutes to answ O Don't forget to scro	n how you feel about Ma over time. This is your sn wer 28 questions. oll! Are you ready to	hematics. ask peek of the test. start this test?	

Other reminders to discuss with students:

- Once they choose 'Yes', the timer starts. Once the timer is counting down, there is no way to pause the test. If students close the test accidentally, they can re-open it again, provided the timer hasn't finished.
- Ask students to raise their hand if something seems wrong.
- Fullscreen mode is recommended.

For students on iPad or Android tablet devices: remind them to lock their device in portrait mode.

For students on Windows hybrid devices (such as the Surface Pro): remind them to keep the keyboard attached during the test.

3. Supervising the test

Make sure you walk around and monitor students during the test. Students tend to continue with their test even if something has gone wrong – for example, a question does not display correctly. For this reason, check that pages are loading correctly, and students are scrolling to see all the content and options. It's a good idea to have a paper booklet of the test available during the testing session.

Students are generally expected to read the test content without assistance. Information on accommodations (e.g., reader-writers) is available on the <u>help site</u>.

4. Know what to do if things go wrong

Internet disconnected

If student answers aren't saving, e-asTTle will show a yellow banner at the top of the page. The banner will turn red when there has been disconnection for 2 minutes or more. Students can keep answering whatever they can, and e-asTTle will try and save answers. Don't refresh or close the window if a coloured banner is showing.

3 answers slill saving...You can keep going. 34:50 test time left

Question 4 of 30

If the Internet has been down, use your professional judgement to decide if students' results should be <u>excluded</u>.

Images not loading

If an image is missing, students will see an icon they can click to try and reload the image.



A question doesn't load fully or looks strange

If something has loaded incorrectly, it can sometimes be corrected by selecting the 'Next' button then the 'Previous' button to reload the question.

Detailed troubleshooting information is available on the <u>help site</u>. To report issues with online testing or for additional assistance, please contact the Education Service Desk: 0800 225 5428.