

Summary

Test Identification

Name	2021 MAT SW 1.2
Date Created	19 Jan 2021
Date Modified	19 Jun 2021
Subject	Mathematics
Status	SCORED
Sequence Number	1098009
Total Test Time	59 minutes
Delivery Method	Onscreen

Curriculum Strand

Number Sense & Operations	17	Number Knowledge	10
Statistics	10	Algebra	10

Curriculum Level

2B	13	2P	12	2A	14
3B	2	3P	2	3A	3

Cognitive Processing

Surface	31	Deep	16
----------------	----	-------------	----

Slider Settings

Strands		Level	
Number Knowledge	Most	Level 2	Most
Number Sense & Operations	Most	Level 3	Few
Algebra	Most		
Statistics	Most		

Marking Guide : 2021 MAT SW 1.2

Q.No	Marking Key
1	1.780, 1.785, 1.870, 1.875
2	b
3	b
4	d
5	a
6	b
7	a
8	a
9	b
10	719
11	b
12	c
13	a
14	b
15	d
16	b
17	b
18	b
19	c
20	c
21	d
22	c
23	b
24	b
25	a
26	d
27	a
28	b
29	d
30	c
31	b
32	d
33	c

Instructions

Underlined Questions e.g. 10 :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 (-).

Q.No	Marking Key
34	d
35	Tuesday
36	3.5
37	14.5
38	b
39	b
40	Bob
41	40c
42	b
43	175, 225, & 275 students (in order)
44	a
45	2
46	Sub-Saharan Africa
47	One million, four hundred and eighty-three thousand, seven hundred and twenty-two

ADMINISTER ONLY SCREEN ONLY

Instructions

Underlined Questions e.g. 10 :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 (-).

Choose a circle to show how much each sentence is like you

Very Unlike Me 1	Unlike Me 2	Like Me 3	Very Like Me 4
---------------------	----------------	--------------	-------------------

01. I like maths at school.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------	-----------------------	-----------------------

02. I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------	-----------------------	-----------------------

03. My teacher thinks I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------	-----------------------	-----------------------

04. My family/whānau think I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------	-----------------------	-----------------------

05. I enjoy doing maths in my own time (not at school).

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------	-----------------------	-----------------------

06. I enjoy doing things in maths that I haven't tried before.

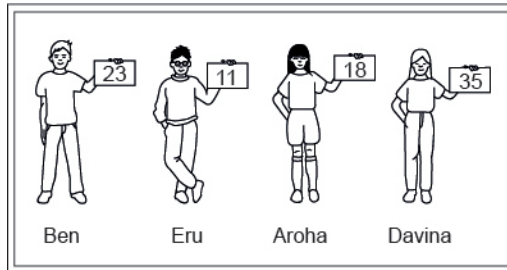
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------	-----------------------	-----------------------

ADMINISTER ON SCREEN ONLY

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?

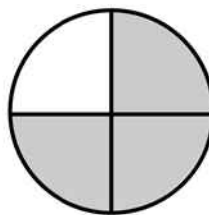


- Ben
- Eru
- Aroha
- Davina

P02. Complete this number pattern.

2, 4, _____, _____, 10

P03. What fraction of this circle is shaded?

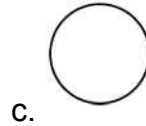
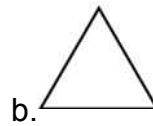




P04. Match the sentence with the correct shape.

1. I have three sides

2. I have 4 sides



P05. Which numbers make this number sentence **TRUE**?

$$2 + \star > 5$$

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).

3

7

2

0

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

In the number 213, the value of 1 is ten.

TRUE

FALSE

In the number 504, the value of 5 is fifty.

ADMINISTER ON SCREEN
ONLY

01. Write these numbers in the correct order from lowest to highest.

1.875, 1.785, 1.870, 1.780

Lowest _____ Highest


02. What number is on the block 11th from the bottom?





- 64
- 18
- 99
- 37


ADMINISTER ON SCREEN ONLY

03. Taimani gets \$7.00 each week for mowing lawns.
Which **TWO** ways could she be paid?

(A) 

(B) 

(C) 

(D) 

- A or B
- A or D
- B or D
- C or D

ADMINISTER ONLY
SCREEN

04. The children in Vetra's class voted for their favourite take-away food. The results were recorded in this table.
The **MOST** popular food was

Maxiburgers	### III
Fish & Chips	II
Chicken Chunks	### III
Pizza	### ### I

- Maxiburgers.
- Fish and Chips.
- Chicken Chunks.
- Pizza.

05. This comb is about 12 buttons long.
About how many toothpicks long is the comb?



- 4
- 8
- 10
- 12

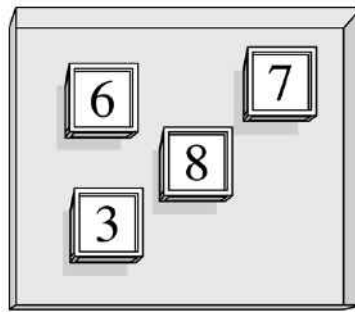
06. Look at the symbol below.

+

When you see this symbol between two numbers, what does it mean?

- The two numbers are equal.
- You must add the two numbers.
- You must subtract the numbers.
- One number must be bigger than the other number.

07. What is the **least** number you could make using all the numbers on these blocks?



- Three thousand, six hundred and seventy-eight
- Three thousand, eight hundred and seventy-six
- Six thousand, three hundred and seventy-eight
- Six thousand, eight hundred and seventy-three

08. Sam placed cookies on a cookie sheet to form 2 rows with 6 cookies in each row. Which of the following number sentences **BEST** describes this situation?

- $2 \times 6 = \underline{\quad}$
- $2 + 6 = \underline{\quad}$
- $6 \div 2 = \underline{\quad}$
- $6 - 2 = \underline{\quad}$

09. David reads two pages every five minutes. How many pages will David have read after twenty-five minutes?

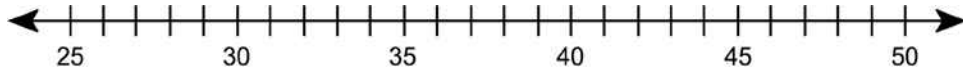
David's Reading

Minutes	5	10	15	20	25
Pages	2	4	6	8	

- 9 pages
- 10 pages
- 11 pages
- 12 pages

10. Use the digits 1, 7 and 9 to make a number that is between 700 and 750.

11. Look at the number line below.
How far is 45 from 30?



- 14
- 15
- 16

12. What number is missing from the table below?

9	17
3	11
7	
4	12

- 7
- 8
- 15
- 28

13. Here is a number pattern.
What three numbers should be in the boxes?

100, 1, 99, 2, 98, , ,

- 3, 97, 4
- 4, 97, 5
- 97, 3, 96
- 97, 4, 96

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

- 29
- 95
- 936

15. Which fraction represents the largest part of a whole?

- $\frac{1}{6}$
- $\frac{1}{4}$
- $\frac{1}{3}$
- $\frac{1}{2}$

16. John and his 3 friends share \$1.00 equally.
How much does each boy get?

- \$0.10
- \$0.25
- \$0.50
- \$0.75

ADMINISTER ON SCREEN ONLY

17. The chart shows the number of stickers four friends bought.

Name	Number of Stickers
Nina	19
Litia	18
Vaea	27
Joel	23

How many more stickers did Vaea buy than Litia?

- 8
- 9
- 11
- 19

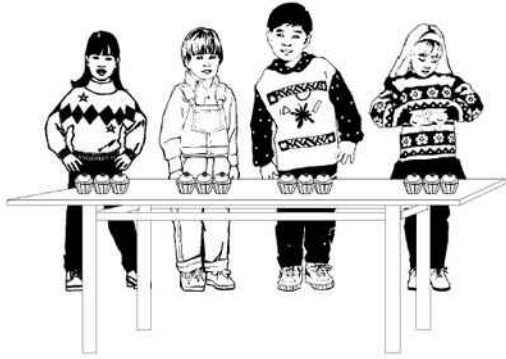
18. Look at the pattern of numbers shown below.

85, 82, 79, 76, _____

If the pattern continues in the same way, what will be the next number?

- 75
- 73
- 69
- 65

19. Four children had three cakes each.



Which number sentence gives the total number of cakes?

$4 \div 3 =$

$4 + 3 =$

$4 \times 3 =$

$4 - 3 =$

20. Which of the following is **closest** to 15 seconds?

14.1 seconds

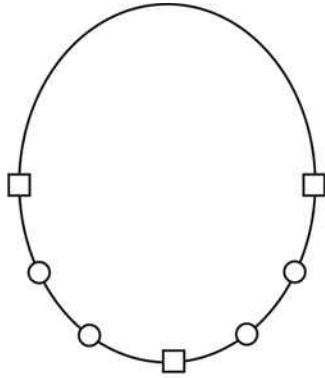
14.7 seconds

14.9 seconds

15.2 seconds

ADMINISTER ONLINE ONLY

21. If the string does **NOT** cost anything, how much does the necklace below cost?



Each \square costs 6c

Each \circ costs 4c

- 10c
- 24c
- 28c
- 34c

22. Add : $238 + 462$

- 600
- 690
- 700
- 490

23. Mr Brown bought 6 towels. All the towels were the same price. The total cost was \$84. How much money did each towel cost?






- \$11
- \$14
- \$78
- \$504


24. This chart shows temperature readings made at different times on four days. When was the highest temperature recorded?

TEMPERATURES					
	6 a.m.	9 a.m.	Noon	3 p.m.	8 p.m.
Monday	15°	17°	20°	21°	19°
Tuesday	15°	15°	15°	10°	9°
Wednesday	8°	10°	14°	13°	15°
Thursday	8°	11°	14°	17°	20°

- Noon on Monday
- 3 pm on Monday
- Noon on Tuesday
- 3 pm on Wednesday

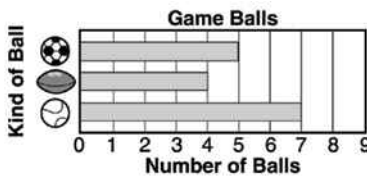
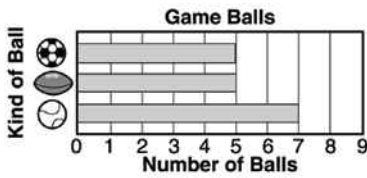
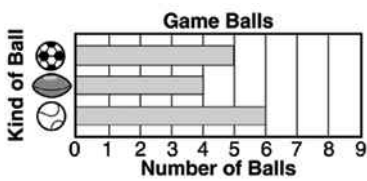
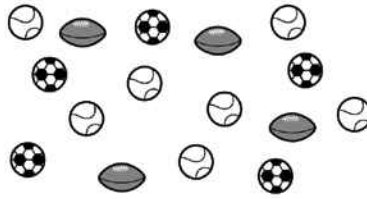
25. Mark made this picture graph to show the number of birds he counted in a field trip. What was the total number of robins that he saw?

Starling	
Blue Jay	
Sparrow	
Crow	
Robin	

Each  = 4 birds

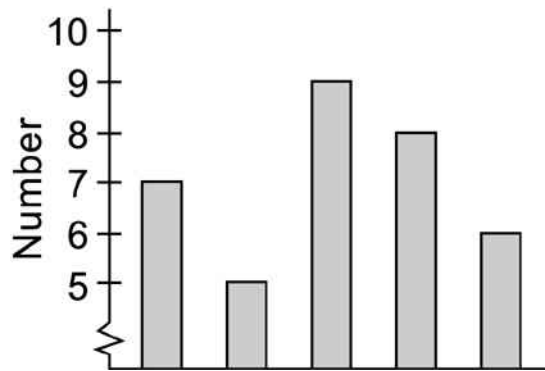
- 16
- 12
- 8
- 4

26. These are the game balls Coach Warner used for P.E class.
Which graph shows the correct number of each kind of game ball?



ADMINISTRATOR ONLY

27. Jim made the graph below.
Which of these could be the title for the graph?



- Number of students who walked to school on Monday to Friday
- Number of dogs in five states
- Number of bottles collected by three students
- Number of students in ten clubs

28. What number goes in the box to make the equation below **TRUE**?

$$56 = \square \times 7$$

- 9
- 8
- 7
- 6

29. Carmen bought 4 boxes of pencils. Each box contained 36 pencils.

How many pencils did Carmen buy?

- 40
- 124
- 130
- 144

30. 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	?

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

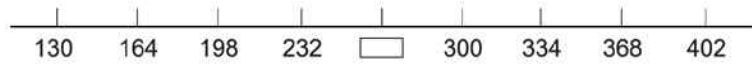
31. There are 50 hamburgers to serve 38 children. If each child is to have at least one hamburger, at most how many of the children can have more than one?

- 6
- 12
- 26
- 38

32. At a picnic, cider is served in cups.
If 1 litre will fill 2 cups, how many cups can be filled from 8 litres of cider?






- 4
- 8
- 11
- 16

33. Which number belongs in the box on the number line shown?



- 296
- 286
- 266
- 246

34. The picture graph shows the number of children who came to story hour each week. How many children came to story hour in week 4?

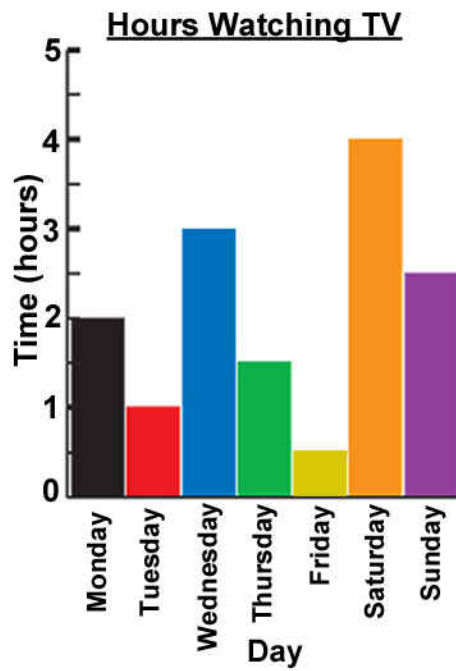
Week	Number of Children
1	
2	
3	
4	
5	

KEY:  = 3 children.

- 5
- 8
- 12
- 15

Use the following information to answer questions 35 to 37.

Fred watches TV each day of the week.



35. On which day did Fred watch TV for only one hour?

36. What is the difference in hours between the day when Fred watched the **MOST** TV and the day when he watched the **LEAST**?

37. How many hours did he spend watching TV during the whole week?

.....
End of Section

38. Twelve children went to the beach. Some of the children went swimming, and some played in the sand. There were twice as many children playing in the sand as swimming. How many children were doing each activity?

- 6 in the sand, 6 swimming
- 8 in the sand, 4 swimming
- 9 in the sand, 3 swimming
- 10 in the sand, 2 swimming

39. N stands for the number of stamps John had. He gave 12 stamps to his sister. Which expression tells how many stamps John has now?

- $N + 12$
- $N - 12$
- $12 - N$
- $12 \times N$

40. Use the information below to answer the question.

Six students were in a swimming race.

These were their times.

Jim	50.165
Bob	51.065
Kim	55.065
Amber	51.094
Helen	56.105
Clark	50.065

Clark won the race.

Which student came third?

Use the following information to answer question 41..

Aroha had these coins and bought a can of soft drink for \$1.60



41. How much change should she get?

End of Section

42. Which of the following fractions is equal to 1?

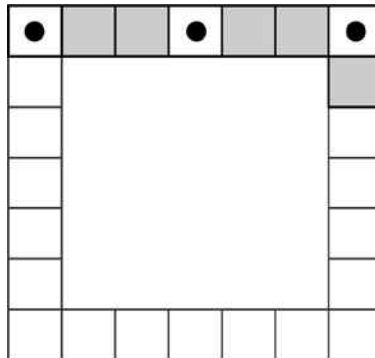
- $\frac{1}{4}$
- $\frac{4}{4}$
- $\frac{8}{4}$

43. In 1990 a school had 125 students. Each year the number of students in the school increases by 50.

Fill in the table to show the number of students expected for each year.

Year	Number of students
1990	125
1991	_____
1992	_____
1993	_____

44. The picture below shows how Kenta plans to create a tile border around the edge of a table.
 If the pattern is continued all the way around the table, how many tiles with dots in the centre will be needed in all?



- 8
- 9
- 11
- 12

45. Ms Hernandez formed teams of 8 students each from the 34 students in her class. She formed as many teams as possible, and the students left over were substitutes.

How many students were substitutes?

Use the following information to answer question 46..

The table shows the percent coverage with good quality drinking water for 1990 and 2000 in different UNICEF regions.

UNICEF Region	Percent coverage in 1990			Percent coverage in 2000		
	Urban	Rural	Total	Urban	Rural	Total
Sub-Saharan Africa	86	39	53	83	44	57
Middle East/North Africa	92	74	82	95	77	87
South Asia	90	66	72	94	80	85
East Asia/Pacific	97	61	71	93	67	76
Latin America/Caribbean	92	58	82	94	66	86
CEE/CIS & Baltic States	-	-	-	95	82	91
Industrialized countries	100	100	100	100	100	100
Developing countries	92	60	71	92	69	78
Least Developed countries	86	58	63	82	55	62
World	94	64	77	95	71	82

46. Which region had the lowest rural coverage in 2000?

47. Write 1 483 722 in words.

ADMINISTER ON SCREEN ONLY

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

[A practice test for each subject](#) 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. [Teacher scripts](#) 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

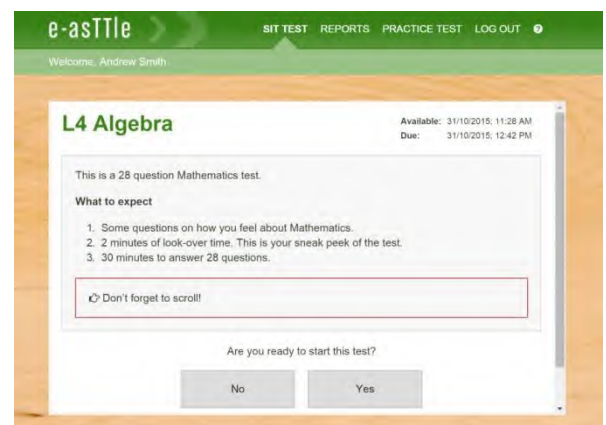
1. Check equipment

- 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.

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.



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 [help site](#).

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.



If the Internet has been down, use your professional judgement to decide if students' results should be [excluded](#).

Images not loading

If an image is missing, students will see an icon they can click to try and reload the image.  **INFO MISSING**
[Click to reload](#)

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 [help site](#). To report issues with online testing or for additional assistance, please contact the Education Service Desk: 0800 225 5428.