Summary

Test Identification	
Name	2020 SW MY MATH 2.2
Date Created	18 May 2020
Date Modified	23 Jul 2020
Subject	Mathematics
Status	SCORED
Sequence Number	1024697
Total Test Time	57 minutes
Delivery Method	Onscreen

Curriculum Strand			
Number Sense & Operations	13	**Number Knowledge**	12
Statistics	9	**Algebra**	11

Curriculum Level					
2B	16	**2P**	10	**2A**	11
3B	1	**3P**	1	**3A**	5

Cognitive Processing			
Surface	23	**Deep**	23

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

Marking Guide : 2020 SW MY MATH 2.2

Q.No	Marking Key
1	a
2	c
3	Walk
4	28
5	9
6	b
7	a
8	d
9	c
10	b
11	d
12	d
13	a
14	b
15	b
16	a
17	a
18	d
19	27, 37
20	Add 10 'Any equivalent answer for 1 mark.'
21	d
22	b
23	d
24	32
25	Art, maths, music, p.e, reading 'All required for 1 mark. Must be in order stated in Answer Key.'
26	d
27	d
28	c
29	a
30	a
31	b
32	c

Q.No	Marking Key
33	b
34	c
35	c
36	a
37	a
38	c
39	d
40	c
41	2/5 or 3/5 'either answer acceptable for 1 mark'
42	3
43	d
44	d
45	d
46	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 (-).

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. I like maths at school.	◯	◯	◯	◯
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.

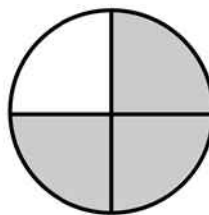**P01.** Who is holding a card with an even number on it?
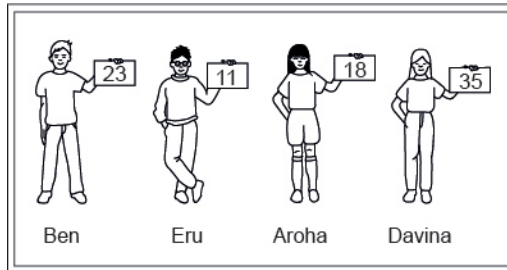
- ⬭ Ben
- ⬭ Eru
- ⬭ Aroha
- ⬭ Davina

P02. Complete this number pattern.

2, 4, ____, ____, 10

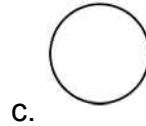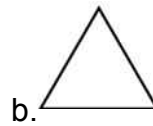**P03.** What fraction of this circle is shaded?

☐

____

☐

P04. Match the sentence with the correct shape.

1. I have three sides

2. I have 4 sides

a. ▢

b. △

c. ◯

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

$$2 + \bigstar > 5$$

☐ 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.

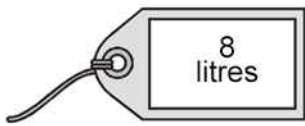|	TRUE	FALSE
In the number 213, the value of 1 is ten.	⬭	⬭
In the number 504, the value of 5 is fifty.	⬭	⬭

01. Which tag tells the volume of water that Connie's bucket can hold?

○ **8 litres**

○ **8 square centimetres**

○ **8 minutes**

○ **8 degrees**
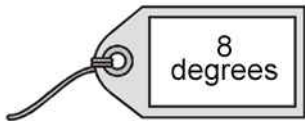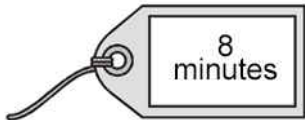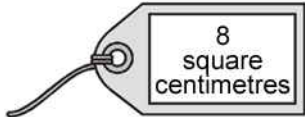
02. The coins below are in stacks of 10.
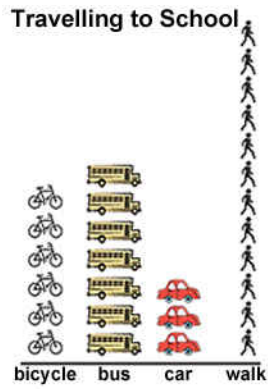How many coins would be in 5 stacks?

○ 5

○ 10

○ 50

Use the following information to answer questions 03 to 05.

The pictogram shows the different ways a class of children travel to school.

Travelling to School

03. How do *MOST* children travel to school?

_____

04. How many children are in this class altogether?

_____

05. How many *more* children walk to school than come by car?
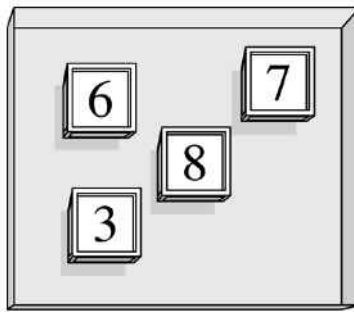
_____

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. Rhonda put 5 yellow and some green marbles in an empty bag. She put a total of 16 marbles in the bag.
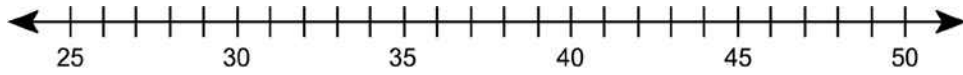
How many green marbles are in the bag?

○ 8

○ 9

○ 10

○ 11

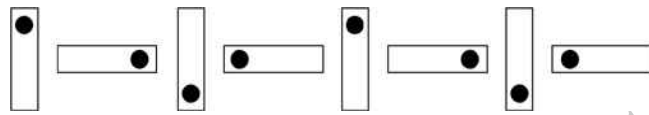**09.** What does '2' stand for in the number 4237?

○ 2

○ 20

○ 200

○ 2000

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

⬭ 14

⬭ 15

⬭ 16

11. Look at this pattern of shapes.
Which of these shows the same kind of pattern?

⬭

⬭

⬭

⬭

12. If 7 x 11 x 13 = 1001, then what is 11 x 7 x 13?
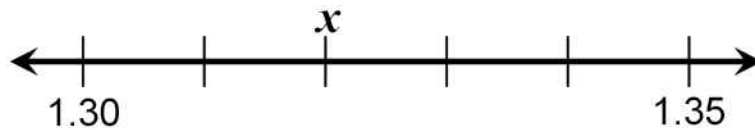
⬭ 77

⬭ 91

⬭ 143

⬭ 1001

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 of the following shows the location of point x in the number line below?

○   1.31

○   1.32

○   1.33

○   1.34

15. What fraction shows the number of blocks that are grey?

○ $\frac{4}{6}$

○ $\frac{4}{10}$

○ $\frac{6}{10}$

16. The city Elizabeth lives in has a population of 320 564.
Which of the following shows 320 564 in words?

$\bigcirc$ Three hundred and twenty thousand five hundred and sixty-four

$\bigcirc$ Three hundred and twenty-five thousand and sixty-four

$\bigcirc$ Three hundred and two thousand five hundred and sixty-four

$\bigcirc$ Three hundred and two thousand six hundred and fifty-four

17. Carrie practises the piano each day.
The table shows how long she practised each day last week.
How many minutes longer did she practise on Wednesday then on Tuesday?

Piano Practise Times

Day	Minutes
Monday	26
Tuesday	24
Wednesday	30
Thursday	35
Friday	15

$\bigcirc$ 6

$\bigcirc$ 5

$\bigcirc$ 4

$\bigcirc$ 2

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

$\bigcirc$ $\frac{1}{6}$

$\bigcirc$ $\frac{1}{4}$

$\bigcirc$ $\frac{1}{3}$

$\bigcirc$ $\frac{1}{2}$

Use the following information to answer questions 19 to 20.
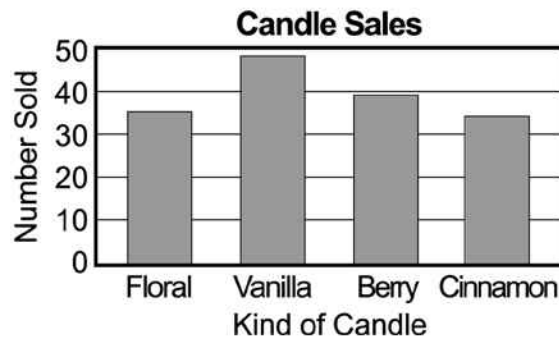
7, 17, __, __, 47

19. Complete this pattern.

7, 17, ————————, ————————, 47

20. What is the rule for this pattern?

_____

21. The table below shows the number of each kind of candle a shop sold.
The shop manager made the bar graph below to display the information in the table.
Which of the amounts from the table is **NOT** graphed correctly?

Candle Sales	
Kind of Candle	**Number Sold**
Floral	35
Vanilla	48
Berry	39
Cinnamon	46

- ⬭   Floral
- ⬭   Vanilla
- ⬭   Berry
- ⬭   Cinnamon

22. Lily has 7 blue T-shirts and some red T-shirts in her drawer. There are 16 T-shirts altogether.

How many T-shirts are red?

◯   8

◯   9

◯   11

◯   23

23. The bar graph below shows the favourite kinds of nuts of the students in a class. Peanuts were the favourite nut of how many students?

Favourite Kinds of Nuts
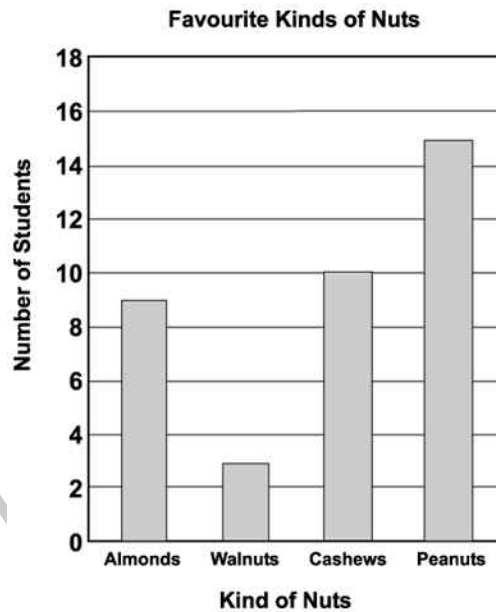
◯   7

◯   8

◯   14

◯   15

Use the following information to answer questions 24 to 25.

Kuni asked her classmates what their favourite subject was.

The tally chart shows their answers.

Favourite Subject	
Reading	‖‖ ‖
Music	‖
Art	‖‖ ‖‖
Maths	‖‖ ‖‖ ‖
P.E.	‖‖‖

24. How many people did Kuni ask?

_____

25. Kuni has forgotten to fill in the key. Complete the key for Kuni by filling in the names of the subjects.

Key

_____

_____

_____

_____

_____
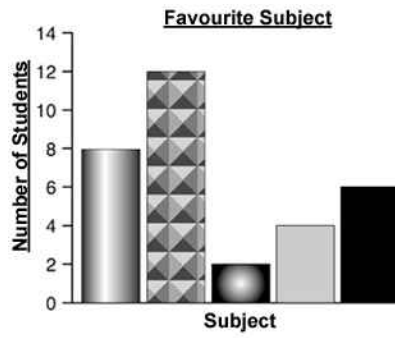
26. The graph shows the favourite sports of the students in Randy's class.
How many fewer liked soccer than netball?

Favourite Sports

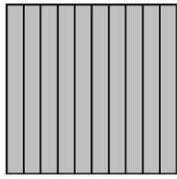| Activity	Number of Votes
Cricket	🙂🙂🙂
Rugby	🙂🙂🙂🙂🙂🙂
Netball	🙂🙂🙂🙂🙂🙂🙂🙂🙂🙂
Soccer	🙂🙂🙂🙂

⬭   3

⬭   4

⬭   5

⬭   6

27. Maria skip-counted by 3's to make a number pattern.
Which of these could be Maria's number pattern?

⬭   12, 15, 24, 30

⬭   12, 18, 21, 24

⬭   12, 15, 20, 24

⬭   12, 15, 18, 21

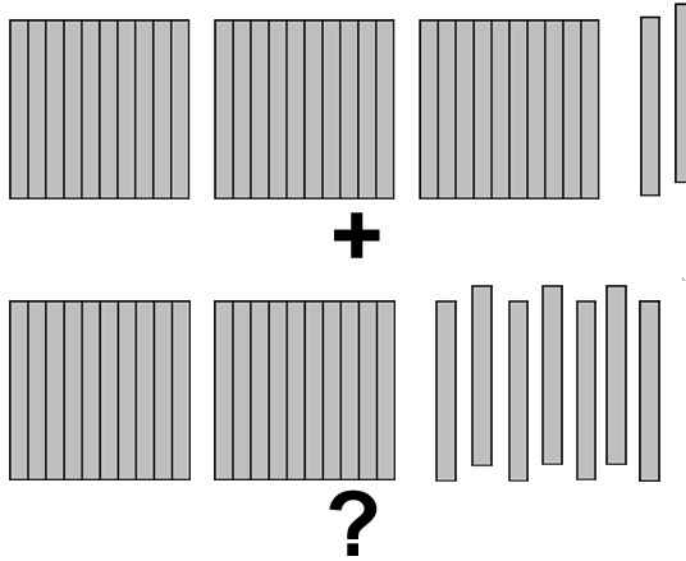**28.** Use the information below to answer the question.
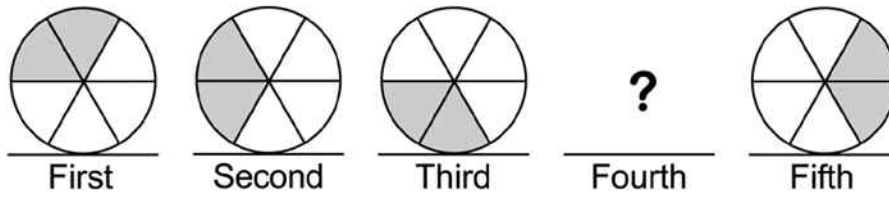
This is one

This is one-tenth

What is

+

?

- ◯ 1.5
- ◯ 3.9
- ◯ 5.9
- ◯ 9.5

29. Which of the figures below should be the fourth figure in the following pattern?

First   Second   Third   **?** Fourth   Fifth

30. 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

31. Tom drove 103 kilometres in the morning and 125 kilometres in the afternoon. How many kilometres did Tom drive in all, to the nearest hundred?
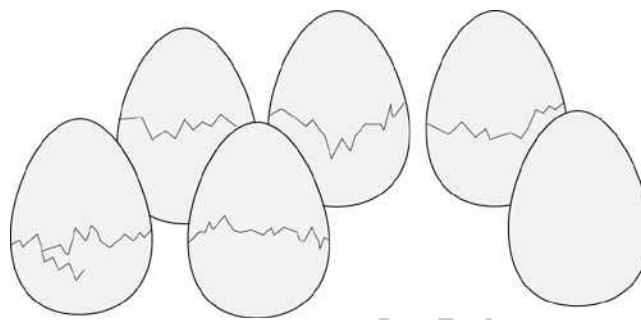
- ◯ 100
- ◯ 200
- ◯ 300

32. What number goes in the box to make the number sentence **TRUE**?

$$6 \times \square = 48$$

○ 6

○ 7

○ 8

○ 9

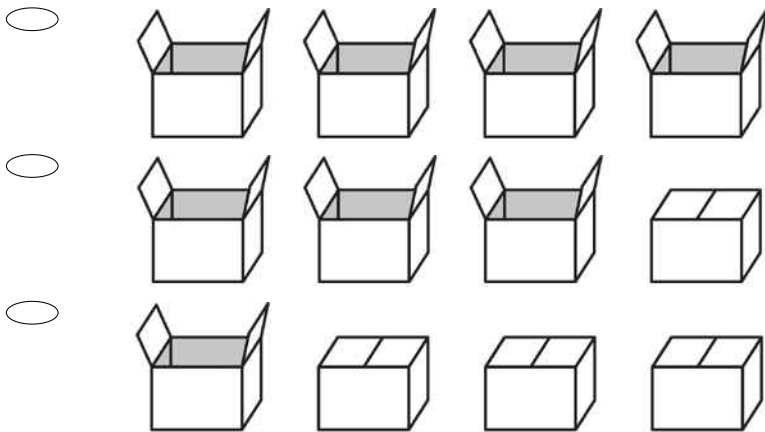**33.** What fraction of the group of eggs is cracked?

○ $\frac{1}{6}$

○ $\frac{5}{6}$

○ $\frac{5}{1}$

○ $\frac{6}{5}$

34. What is the number below?
Seventy two

○ 27

○ 70

○ 72

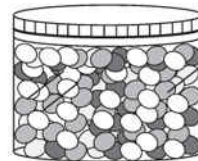**35.** Which set of boxes shows $\frac{1}{4}$ of the boxes opened?

36. Which is the **BEST** estimate for the number of jelly beans in Jar B?
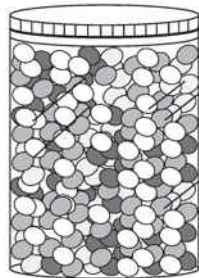
Jar A = 496 jelly beans   Jar B = __?__ jelly beans

- 250
- 300
- 200
- 350
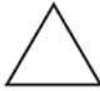
37. What fraction of the apples is in the basket?
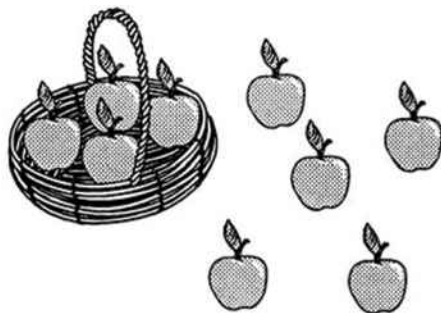
- $\frac{4}{9}$
- $\frac{5}{9}$
- $\frac{4}{5}$
- $\frac{5}{4}$

38. What is the next shape in this pattern?

39. Dan made up a secret code in which A = 1, B = 2, C = 3, D = 4, and so on to Z = 26. Using Dan's secret code, what is the value of A + D + F?

- ⬭　　5
- ⬭　　6
- ⬭　　10
- ⬭　　11

40. Which decimal represents the shaded part of the figure?
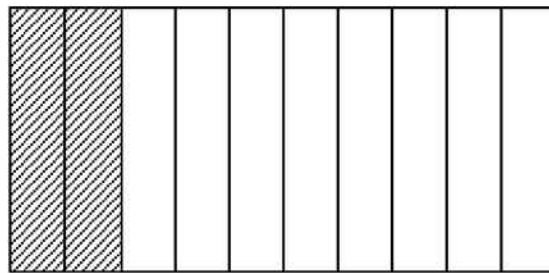
- ⬭　　0.5
- ⬭　　0.28
- ⬭　　0.2
- ⬭　　0.02

41. This block of chocolate is made up of five smaller pieces.
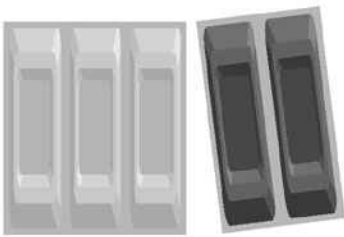
What fraction of the block has been removed?

_____

42. Fill in the box to make this number sentence **TRUE**.

$$2 \times \boxed{} + 7 = 13$$

43. Just before sunrise the temperature was 13 degrees below zero. By 10 am the temperature had risen 19 degrees.
Which shows how to find the temperature at 10 am?

- ⬭   13 - 19
- ⬭   13 + 19
- ⬭   -13 - 19
- ⬭   -13 + 19

44. Laurie used five metres of fabric to make two costumes for the school play.
How many metres of fabric would she need to make 20 more of these costumes?

- ⬭   8
- ⬭   27
- ⬭   40
- ⬭   50

45. Kyle needs to buy brushes, nails, and paint to make bookshelves. He will sell the bookshelves for $18 each.

What additional information does Kyle need to calculate the profit he will make from selling 10 bookshelves?

- ⬭   The kind of wood
- ⬭   The size of the nails and the colour of the paint
- ⬭   The amount he will collect for selling 10 bookshelves
- ⬭   His cost to make one bookshelf

46. Which of the following measures *closest* to 45º?

○

○

○

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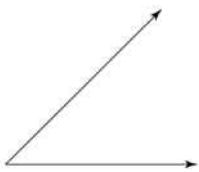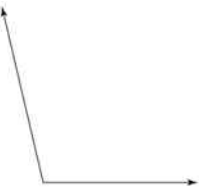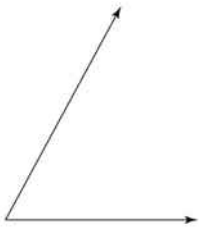
Please provide these instructions to all staff involved with administering e-asTTle online.

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	Large Tablets (9"+)
• 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	• 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.
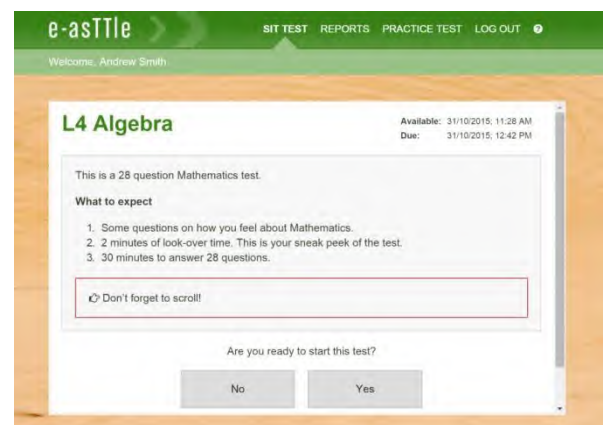
Other reminders to discuss with students:

- 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.

3 answers still 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 excluded.

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