

## Summary

### Test Identification

<b>Name</b>	2020 SW MY MATH 2.3
<b>Date Created</b>	18 May 2020
<b>Date Modified</b>	05 Aug 2020
<b>Subject</b>	Mathematics
<b>Status</b>	SCORED
<b>Sequence Number</b>	1024699
<b>Total Test Time</b>	57 minutes
<b>Delivery Method</b>	Onscreen

### Curriculum Strand

<b>Number Sense &amp; Operations</b>	17	<b>Number Knowledge</b>	9
<b>Statistics</b>	12	<b>Algebra</b>	10

### Curriculum Level

<b>2B</b>	3	<b>2P</b>	1	<b>2A</b>	2
<b>3B</b>	9	<b>3P</b>	15	<b>3A</b>	9
<b>4B</b>	3	<b>4P</b>	0	<b>4A</b>	3

### Cognitive Processing

<b>Surface</b>	26	<b>Deep</b>	19
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### Slider Settings

<b>Strands</b>		<b>Level</b>	
<b>Number Knowledge</b>	Most	<b>Level 2</b>	Few
<b>Number Sense &amp; Operations</b>	Most	<b>Level 3</b>	Most
<b>Algebra</b>	Most	<b>Level 4</b>	Few
<b>Statistics</b>	Most		

## Marking Guide : 2020 SW MY MATH 2.3

Q.No	Marking Key
<u>1</u>	10
<u>2</u>	c
<u>3</u>	e
<u>4</u>	d
<u>5</u>	b
<u>6</u>	b
<u>7</u>	c
<u>8</u>	<
<u>9</u>	=
<u>10</u>	>
<u>11</u>	=
<u>12</u>	c
<u>13</u>	b
<u>14</u>	6
<u>15</u>	3/4 or equivalent
<u>16</u>	2/3 or equivalent
<u>17</u>	d
<u>18</u>	d
<u>19</u>	b
<u>20</u>	d
<u>21</u>	c
<u>22</u>	true
<u>23</u>	false
<u>24</u>	true
<u>25</u>	d
<u>26</u>	b
<u>27</u>	a
<u>28</u>	d
<u>29</u>	a
<u>30</u>	a
<u>31</u>	d
<u>32</u>	a
<u>33</u>	a

### 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	c
36	c
37	a
38	c
39	c
40	c
41	c
42	c
43	The lower the temp the more pies sold OR the higher the temp, less/ fewer pies sold
44	a
45	Graph B. There were 20 students (reject graph (c) ) and only four of them had no pockets (reject graph (a)) 'Answer and equivalent explanation required for 1 mark'

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ONLY

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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
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01. I think maths is exciting and interesting.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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02. I never get tired of doing maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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03. I like to do and think about maths outside of school.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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04. I think maths helps me to understand life.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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05. I think that maths helps people make important decisions.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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06. Maths is NOT boring.

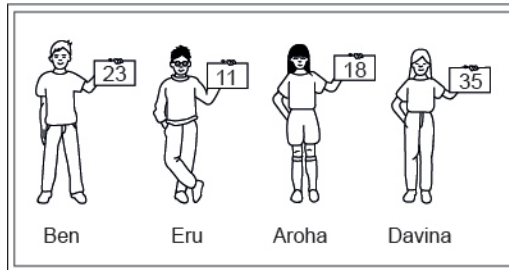
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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## Practice Questions

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?

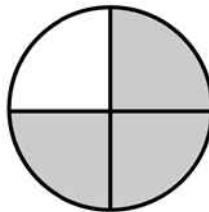


- Ben
- Eru
- Aroha
- Davina

**P02.** Complete this number pattern.

2, 4, \_\_\_\_\_, \_\_\_\_\_, 10

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



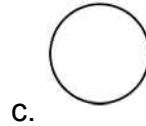
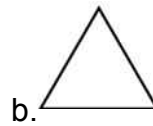
\_\_\_\_\_



**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.

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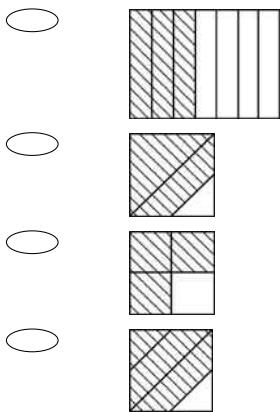
01. Gina made a pattern with groups of shells.



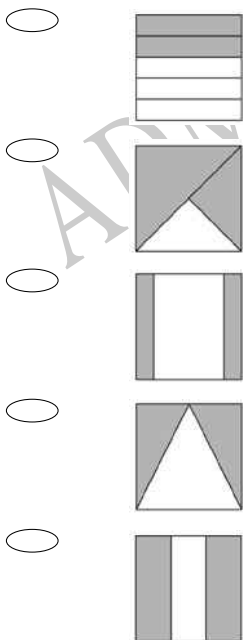
How many shells should be in the next group?

\_\_\_\_\_

02. Which shows  $\frac{3}{4}$  of the picture shaded?



03. Which shows  $\frac{2}{3}$  of the square shaded?





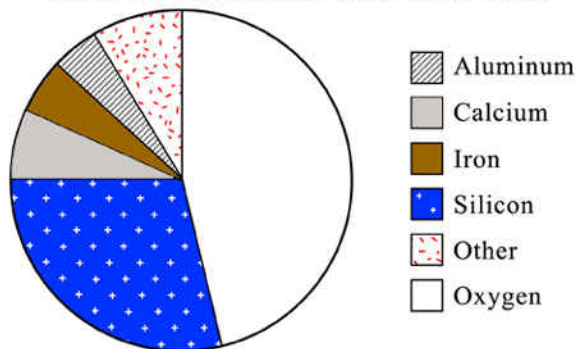
04. Which two **odd** numbers have been left out of this number chart?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

- 15, 26
- 26, 21
- 33, 15
- 15, 21

05. According to the graph below, which element forms the second greatest portion of the earth's crust?

ELEMENTS THAT MAKE UP THE EARTH'S CRUST




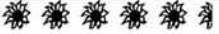

- Oxygen
- Silicon
- Aluminium
- Iron
- Calcium

**06.** The pictogram shows the number of flowers planted in Amherst parks, but the key is missing.

Townpeople planted 90 roses, 165 daisies, and 210 tulips.

How many actual flowers does each flower in the pictogram represent?

**Flowers Planted in Amherst Parks**

Roses	
Daisies	
Tulips	

- 50
- 30
- 25
- 35

**07.** Pat has 3 fish bowls. There are 4 plants and 5 fish in each bowl.  
Which gives the total number of fish?

- 3 + 5
- 3 x 4
- 3 x 5
- 3 + 4 + 5

**Place =, < or > in the spaces below to make these number sentences correct in questions 08 to 11.**

**08.**

6 \_\_\_\_\_ 9

**09.**

801 \_\_\_\_\_ 1000 - 199

**10.**

2 x 3 \_\_\_\_\_ 5

11.

$5^2$  \_\_\_\_\_  $20 + 5$

End of Section

12. On Friday, 1250 people visited the zoo. Three times as many people visited on Saturday than on Friday.

How many people visited the zoo on Saturday?

- 3615
- 3650
- 3750
- 3753

13. Lark bought the two shirts shown below.

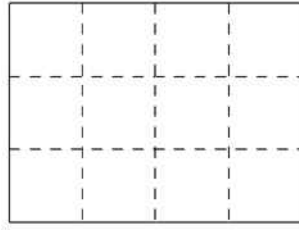
What was the total cost of the two shirts?



- \$39.26
- \$39.36
- \$40.26
- \$40.36

Use the following information to answer questions 14 to 16.

At a party, a cake was cut into pieces.



**Cake**

14. How many pieces are there in  $\frac{1}{2}$  of the cake?

\_\_\_\_\_

15. Write the fraction for 9 pieces of the cake?

\_\_\_\_\_

16. Ben ate 4 pieces of cake.

What fraction of the cake is left?

\_\_\_\_\_

End of Section

17. Which of the following values should be placed in the box to make the equation **TRUE**?

$$8 = 56 \div \square$$

- 10
- 9
- 8
- 7

18. The average length of a song is 3 minutes.

About how many songs can be played in 16 minutes?

- 48
- 13
- 6
- 5

19.  $3 \times (\underline{\quad} + 5) = 30$

The number on the line should be

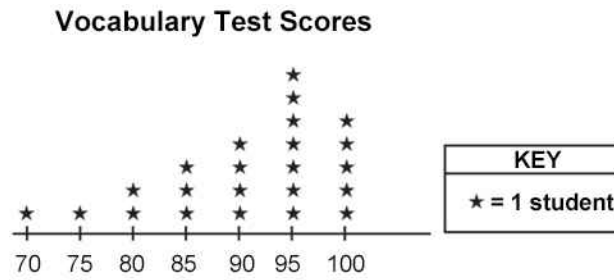
- 2
- 5
- 10
- 95

20. If  $N = 4$ , what is the value of  $6 \times N - 3$ ?

- 6
- 9
- 18
- 21

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21. The line plot below shows how students scored on last week's vocabulary test. How many students scored 95 or higher on the test?



- 5 students
- 7 students
- 12 students
- 16 students

Use the following information to answer questions 22 to 24.

A class was asked to insert the correct symbol (=, < or >) in the equations below to make them correct.

Select those that are TRUE and those that are FALSE.

22.

$6 \div 2 = 6 \times \frac{1}{2}$ 
**TRUE**
**FALSE**

23.

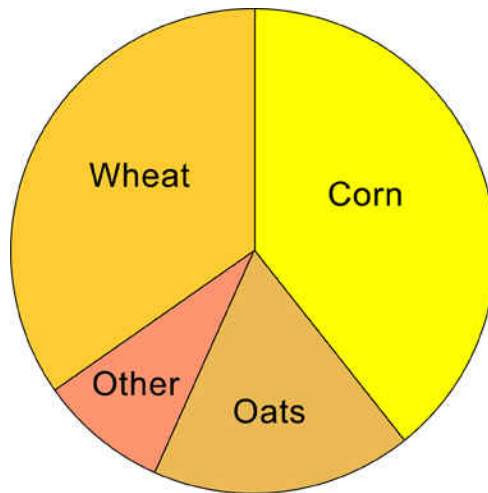
$7 \times 3 < 20$ 
**TRUE**
**FALSE**

24.

$8 - 4 + 2 > 4 \div 1$ 
**TRUE**
**FALSE**

End of Section

25. The graph shows the distribution of crops grown in a certain country. According to the information in the graph, which of these statements is **TRUE**?

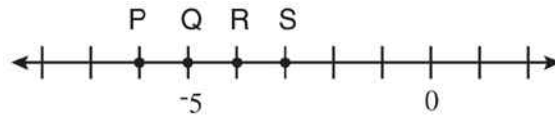


- More oats are grown than wheat.
- Corn is more than one-half the country's crop.
- Oats are more than one-third of the country's crop.
- The total crop of oats and wheat is greater than the corn crop.

26. Which of these is another way to write the product  $12 \times 7$ ?

- $2 \times 3 \times 7$
- $3 \times 4 \times 7$
- $3 \times 6 \times 7$
- $6 \times 6 \times 7$

27. Which letter on the number line **BEST** identifies the location of -6?



- P
- Q
- R
- S

28. Cheryl went to a parking lot and tallied the number of cars of each colour that she saw there. She found that about 15% of the cars were green, about 20% were black, and about 15% were white. The rest were other colours.

Which pie graph **BEST** represents the results of Cheryl's tally?

- 
- 
- 
-



**29.** The table below shows the number of tickets sold to different events at the county fair. What was the total number of tickets sold for these four events?

<b>Event</b>	<b>Number Sold</b>
Dog Show	2260
Craft Booth	3031
Whirly Ride	928
Ferris Wheel	1415

- 7634
- 7624
- 6634
- 6524

**30.** Every hour, a company makes 8400 paper plates and puts them in packages of 15 plates each.

How many packages are made in one hour?

- 560
- 8385
- 17 857
- 126 000

**31.** Carla has 12 boxes that each weigh the same amount.

What would be a quick way for her to find the total weight of the 12 boxes?

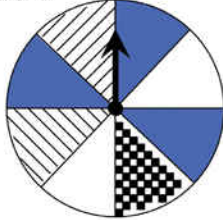
- Add 12 to the weight of one of the boxes
- Subtract 12 from the weight of one of the boxes
- Divide the weight of one of the boxes by 12
- Multiply the weight of one of the boxes by 12

32. Each student in Mr Montoya's class predicted the type of section the arrow on the spinner shown in Part A below would stop on **MOST** often.

The charts in Part B below show the students' predictions and the results of the experiment.

Which student's prediction was correct?

Part A



Part B

Predictions		Results	
Erina	striped	shaded	
Autumn	shaded	white	
Bob	white	striped	
Sam	squares	squares	

- Autumn
- Bob
- Erina
- Sam

33. Kirstin wants to buy a flute that costs \$240. She has saved \$20 each week for 3 weeks.

How many **more** weeks does Kirstin need to save if she continues to save \$20 each week?

- 9 weeks
- 10 weeks
- 11 weeks
- 12 weeks

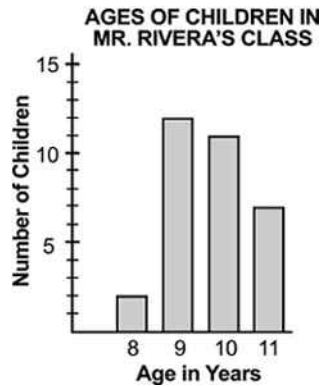
34. In one hour, Tracy walked 2.31 kilometres on a treadmill. Lisa walked 1.95 kilometres in the same amount of time.

How much farther did Tracy walk than Lisa?

- 1.66 kilometres
- 1.36 kilometres
- 0.46 kilometre
- 0.36 kilometre

35. The graph below shows how many of the 32 children in Mr Rivera's class are 8, 9, 10, and 11 years old.

Which of the following is **TRUE**?



- Most are younger than 9
- Most are younger than 10
- Most are 9 or older
- None of the above is true

36. Each time Rosa takes her dog for a check-up, Dr Azim records the dog's weight. Which of the following is the **BEST** way for the doctor to record the dog's weight at each check-up in order to see any changes in the weight?

- Pictogram
- Tally chart
- Line graph
- Circle graph

37.  $4 \times 0 \times 5 \times 9 =$

- 0
- 36
- 45
- 180

**38.** A bottle of liquid dog vitamins indicates that a dog gets two drops of vitamins each day for every five kilograms of body weight.

How many drops of vitamins should a 20-kilogram dog get each day?

- 2
- 4
- 8
- 22

**39.** Which is another way to write the number 52 068?

- $5 + 2 + 0 + 6 + 8$
- $50\,000 + 200 + 60 + 8$
- 52 thousands, 6 tens, 8 ones
- Five thousand two hundred and sixty-eight

**40.** The chart shows the relationship between the time on the clock and the number of shirts Gary had finished ironing.

According to the data in the chart, how many minutes did it take Gary to iron each shirt?

**GARY'S IRONING**

TIME	Total Number of Shirts Ironed
8:15	0
8:31	2
8:47	4
9:03	6

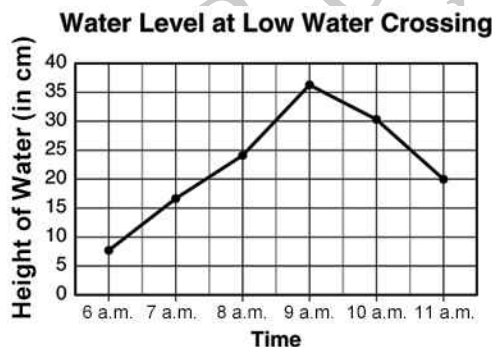
- 2 minutes
- 6 minutes
- 8 minutes
- 48 minutes

41. The table shows the number of visitors to some national parks, recorded in one year. Which of the following is a **TRUE** statement about the number of visitors to these parks?

Name of park	Number of Vistors
Assateague Island National Seashore	1 836 784
Cumberland Gap National Historical Park	1 317 835
Shenandoah National Park	1 473 100
Valley Forge National Historical Park	1 784 520

- 1 836 784 < 1 784 520
- 1 473 100 < 1 317 835
- 1 317 835 < 1 784 520
- 1 836 784 < 1 473 100

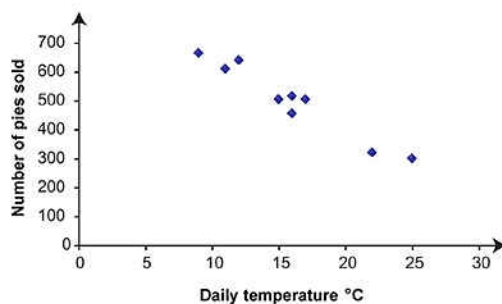
42. After a heavy rain storm, Mrs Mendez recorded the height of the water at a low water crossing. She used her data to make the graph below. Which is **closest** to the height of the water recorded at 6:30 am?



- 8 cm
- 10 cm
- 13 cm
- 15 cm

Use the following information to answer question43..

Maria recorded the daily temperature, and the number of pies sold on that day, and then plotted the points on a graph.



43. What could she conclude from this graph?

End of Section

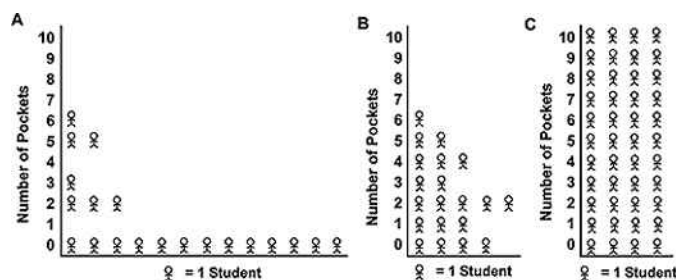
44. Which can be solved using the open sentence  $F + 2 = ?$

- There are 2 more drummers in the band than flute players. If  $F$  is the number of flute players in the band, how many drummers are there?
- There are 2 fewer trumpet players in the band than flute players. If  $F$  is the number of flute players in the band, how many trumpet players are there?
- There are 2 times as many flute players in the band as trombone players. If  $F$  is the number of trombone players in the band, how many flute players are there?
- The flute players in the band sit in the first 2 rows. The same number of flute players sit in each row. If  $F$  is the total number of flute players in the band, how many sit in each row?

Use the following information to answer question 45..

There are 20 students in Mr Pang's class.

On Tuesday **MOST** of the students in the class said they had pockets in the clothes they were wearing.



45. Which of the graphs **MOST** likely shows the number of pockets that each child had? Explain why you chose that graph.

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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

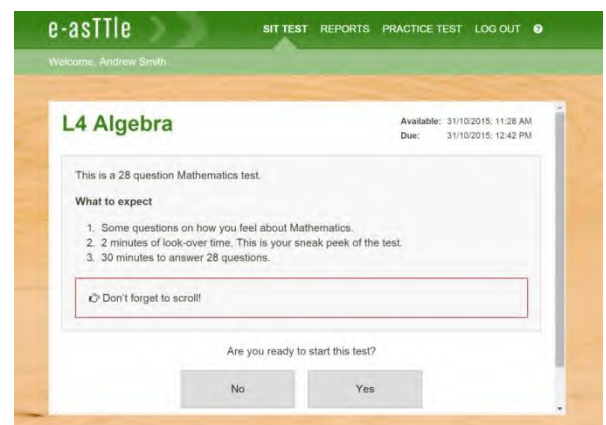
### 1. Check equipment

- 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.