

Summary

Test Identification

Name	2019 MAT SW 1.3
Date Created	02 Feb 2019
Date Modified	12 May 2019
Subject	Mathematics
Status	SCORED
Sequence Number	892962
Total Test Time	57 minutes
Delivery Method	Onscreen

Curriculum Strand

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

Curriculum Level

2B	4	2P	1	2A	5
3B	7	3P	18	3A	15

Cognitive Processing

Surface	26	Deep	24
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Slider Settings

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

Marking Guide : 2019 MAT SW 1.3

Q.No	Marking Key
1	a
2	a
3	b
4	b
5	b
6	b
7	a
8	d
9	b
10	a
11	b
12	d
13	d
14	a
15	c
16	b
17	d
18	b
19	b
20	b
21	a
22	b
23	344, 304, 530 'All three correct for 1 mark. Must be in order stated in Answer Key.'
24	b
25	b
26	d
27	c
28	b
29	c
30	b
31	d
32	-2

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
33	a
34	c
35	b
36	c
37	d
38	c
39	c
40	b
41	d
42	a
43	d
44	a
45	c
46	c
47	d
48	e
49	b
50	b

ADMINISTER ON 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
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01. I like maths at school.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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02. I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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03. My teacher thinks I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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04. My Mum and Dad think I am good at maths.

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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05. I enjoy doing maths in my own time (not at school).

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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06. I enjoy doing things in maths that I haven't tried before.

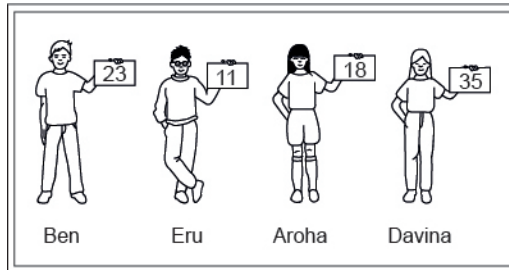
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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ADMINISTER ON SCREEN ONLY

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?

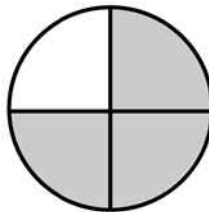


- Ben
- Eru
- Aroha
- Davina

P02. Complete this number pattern.

2, 4, _____, _____, 10

P03. What fraction of this circle is shaded?

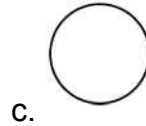
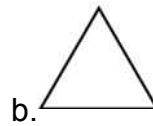




P04. Match the sentence with the correct shape.

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.

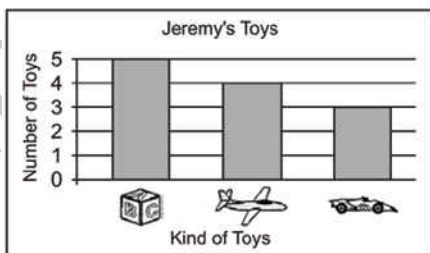
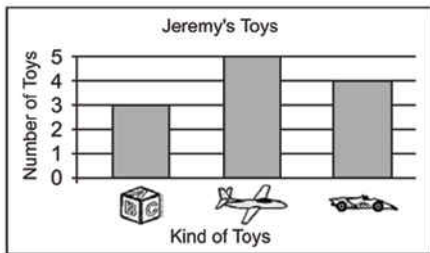
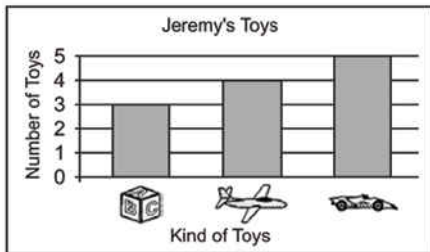
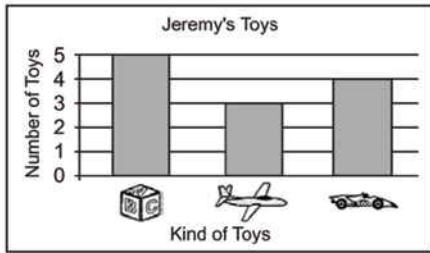
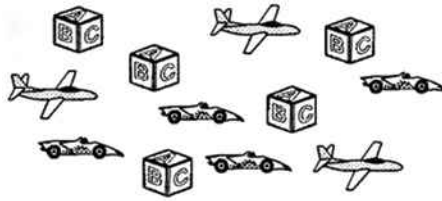
ADMINISTER ON SCREEN
ONLY

01. Last summer, 35 786 people visited the zoo in Harristown.
How is 35 786 written in words?

- Thirty-five thousand, seven hundred and eighty-six
- Three hundred and fifty-seven thousand and sixty-eight
- Three hundred and five thousand, seven hundred and eighty-six
- Three hundred and fifty thousand, seven hundred and eighty-six

ADMINISTER ON SCREEN
ONLY

02. The image below shows the toys in Jeremy's toy box.
Which bar graph correctly shows the number of each kind of toy Jeremy has?



ONLY SCREEN

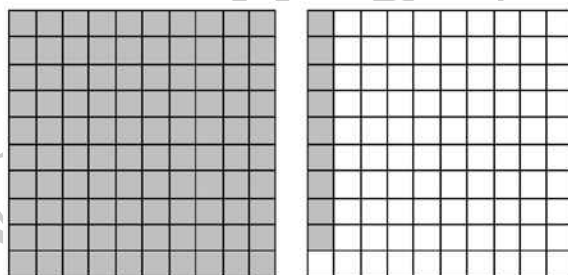
03. Which of these numbers is the smallest?

- 91.369
- 88.521
- 88.999
- 89.001

04. Which digit is in the hundreds place in 2345?

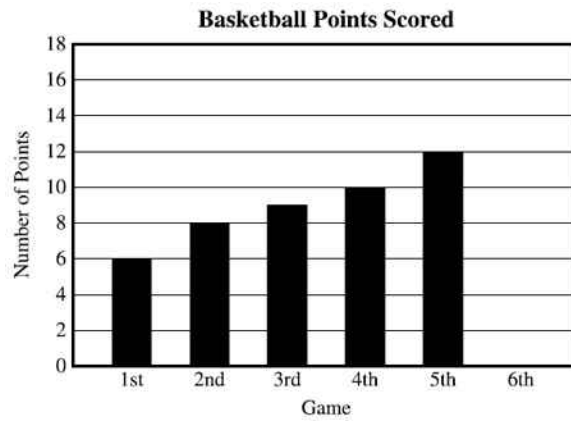
- 2
- 3
- 4
- 5

05. What number is represented by the shaded part of the figure below?



- 0.19
- 1.09
- 1.19
- 2.09

06. The graph below shows the number of points a team scored in their first five games. What would be a reasonable prediction of the score for the team's sixth game if they continue to improve at this rate?



- Below 12
- Between 12 and 14
- Between 16 and 18
- Above 18

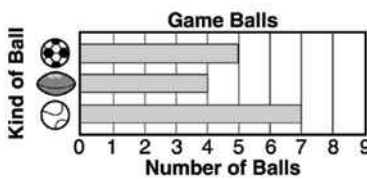
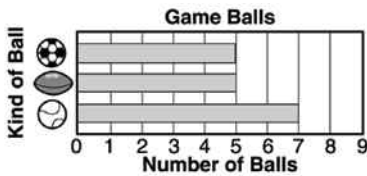
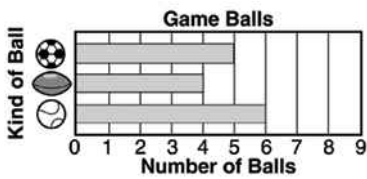
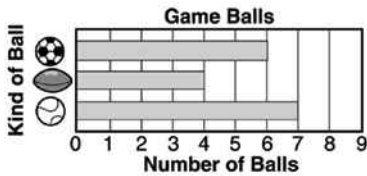
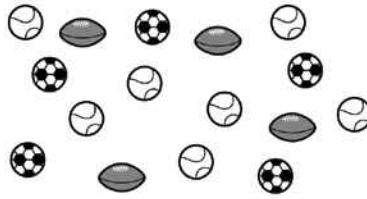
ADMINISTER ON SCREEN ONLY

07. Four children each showed a number on a calculator. Which is the smallest number?



ADMINISTRATOR ONLY

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



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

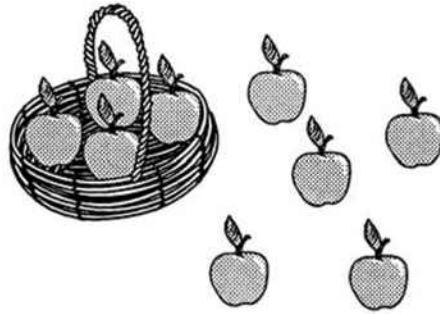
583 000

583 600

583 700

84 000

10. What fraction of the apples is in the basket?




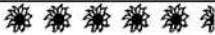

- $\frac{4}{9}$
- $\frac{5}{9}$
- $\frac{4}{5}$
- $\frac{5}{4}$

11. 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

12. Pat is using a rule to make the list of numbers shown below.

48, 39, 30, 21, 12, ____

If she continues using the same rule, what will be the next number in the list?

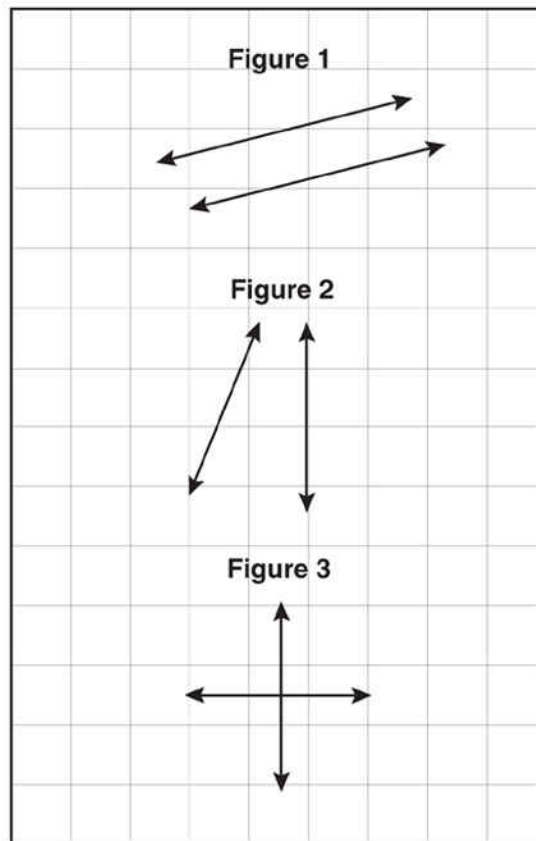
- 11
- 9
- 7
- 3

13. Which of the following will be a **TRUE** statement if an equal sign (=) is placed in the box?

- $5 + 2 \square 5 + 5$
- $5 + 10 \square 10 - 5$
- $5 + 5 \square 10 \times 2$
- $5 + 5 \square 2 \times 5$

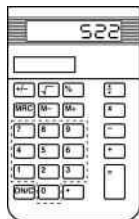
ADMINISTER ON SCREEN ONLY

14. Which figures below show pairs of lines that appear to be parallel?



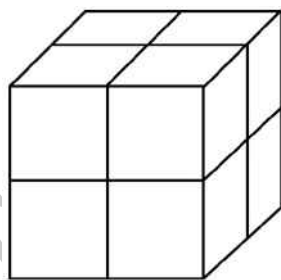
- Figure 1 only
- Figure 3 only
- Figure 1 and Figure 2
- Figure 2 and Figure 3

15. Mrs Jones bought 6 kilograms of berries. Each kilo cost 87c. Mrs Jones used her calculator to find the cost of the berries and the display showed 522. What was the cost of the berries?



- \$522
- \$52.20
- \$5.22
- \$0.52

16. In this figure, how many small cubes were put together to form the large cube?



- 7
- 8
- 12
- 24

17. Chris has 7 blocks in a bag. Four of the blocks are yellow.
If Chris picks a block without looking, what are the chances he will pick a yellow block?

- 1 out of 4
- 1 out of 7
- 3 out of 7
- 4 out of 7

18. $3 \times (\underline{\quad} + 5) = 30$
The number on the line should be

- 2
- 5
- 10
- 95

19. Ravi has more tapes than magazines. He has fewer tapes than books.
Which of the following lists these items from the greatest to the least in number?

- Books, magazines, tapes
- Books, tapes, magazines
- Magazines, books, tapes
- Tapes, magazines, books

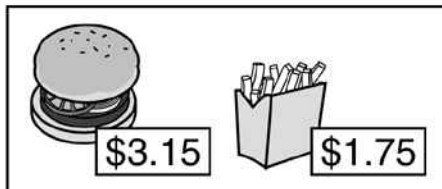
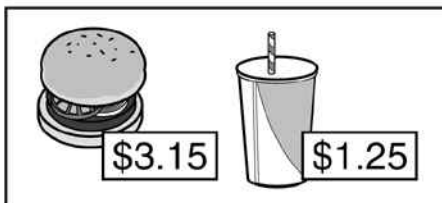
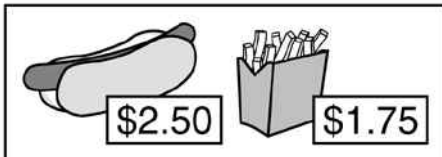
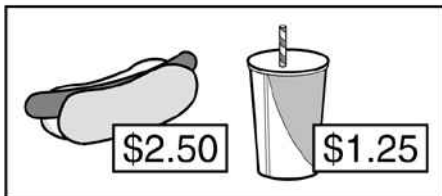
20. Mele needs to purchase 5 notebooks at \$1.99 each and 3 pens at \$0.89 each.

About how much will she spend?

- \$15.00
- \$13.00
- \$11.00
- \$9.00

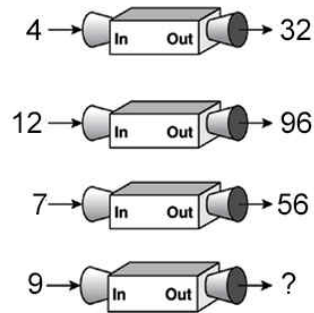
21. Tyrone has \$20 to spend at the basketball game. He must use part of the amount to pay for his ticket.

If the ticket costs \$15.95, which of the following would he also be able to buy?



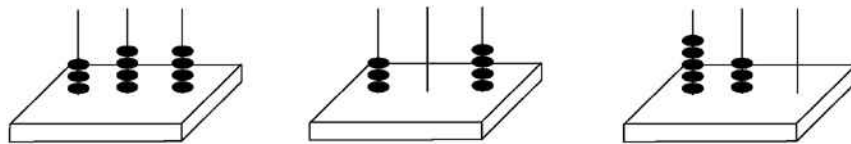
ADMIT ONE ONLY SCREEN

22. A function machine uses a rule to change numbers into other numbers. The picture below shows what happened when the numbers 4, 12 and 7 went into the machine. What number will come out of the machine if the number 9 goes into it?



- 63
- 72
- 81
- 90

Use the three abacuses shown to answer question 23..



23. What number does each abacus show?

(i) _____

(ii) _____

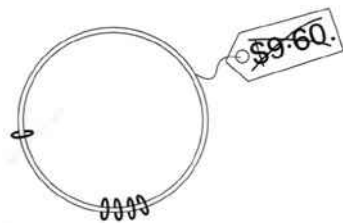
(iii) _____

End of Section

24. A coin is flipped six times. The results are heads, tails, heads, tails, tails, and tails. If the coin is tossed again, what is the chance that the result will be tails?

- 0 chance
- 1 out of 2
- 1 out of 3
- 2 out of 2

25. The Warehouse is selling "Chatter Rings". The normal price is \$9.60. The sale price is $\frac{1}{3}$ the normal price. The sale price is

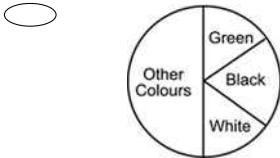
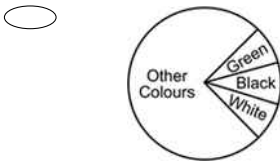
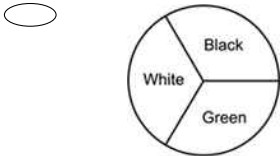
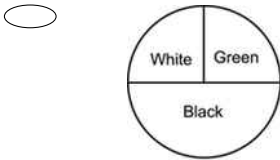


- \$3.00
- \$3.20
- \$6.40
- \$6.60

ADMINISTER ONLY SCREEN

26. 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?



27.

TER ON SCREEN

POPULATION

Clear Lake	8000
Rancho Santa Fe	4000
Bull Shoals	1500
Beaver City	750
Jeffersonville	500

A pictogram of the data above is to be drawn using  as the symbol that represents 500 people.

How many  would it take to represent the population of Rancho Santa Fe?

- 1
- 4
- 8
- 80
- 4000

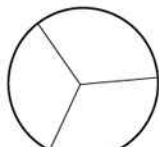
28. Mr Garcia bought 5 dozen eggs at \$0.89 per dozen.
What was the total cost of the eggs?

- \$4.05
- \$4.45
- \$5.89
- \$10.68

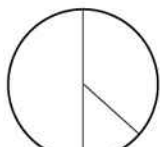
29. Which number below has the **LEAST** value?

- 31.64
- 316.4
- 3.164
- 3164.0

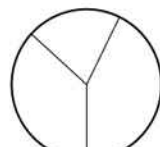
30. In Ms Jones' class of 36 students,
12 students walk to school,
18 students take the bus to school, and
6 students are driven to school.
Which circle graph represents Ms Jones' class?



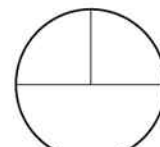
Graph 1



Graph 2



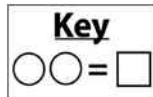
Graph 3



Graph 4

- Graph 1
- Graph 2
- Graph 3
- Graph 4

31. Which of the following is **TRUE**?



- ○ ○ ○ = □
- ○ = □ □
- ○ ○ ○ ○ ○ = □ □
- ○ ○ ○ ○ ○ ○ ○ = □ □ □

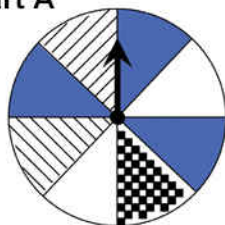
32. At 4:00pm the temperature was 12°C.
 By 10:00pm, the temperature had dropped by 14°C.

What was the temperature at 10:00pm?

_____ °C

33. 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

Use the following information to answer question 34..

The graph shows how Rupert's weekly income is used.

Rupert's weekly budget



Rupert's weekly income is \$440.

34. How much does Rupert spend on food in one week?

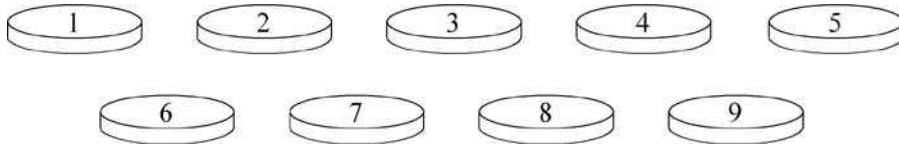
- \$90
- \$100
- \$110
- \$120

End of Section

35. Which of the following is the **BEST** estimate of the solution to 25×101 ?

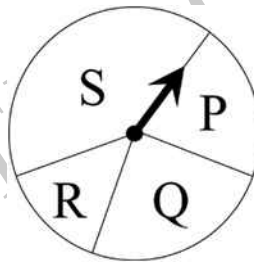
- 250
- 2 500
- 25 000
- 250 000

36. The nine chips shown below are placed in a sack and then mixed up. Madeline draws one chip from this sack. What is the probability that Madeline draws a chip with an even number?



- $\frac{1}{9}$
- $\frac{2}{9}$
- $\frac{4}{9}$
- $\frac{1}{2}$
- $\frac{4}{5}$

37. Kevin predicted that the arrow on the spinner shown below would stop on "S" more than any other letter. Kevin recorded the results of 20 spins. Which of the following **MOST** likely represents the results of Kevin's spins?



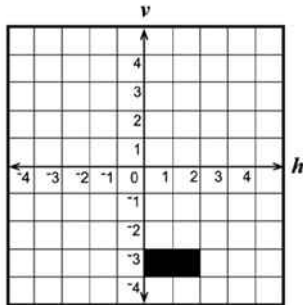
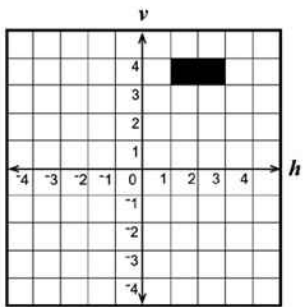
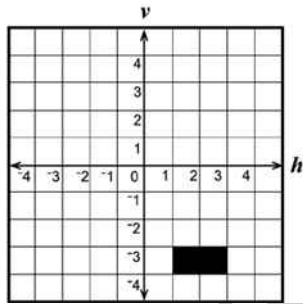
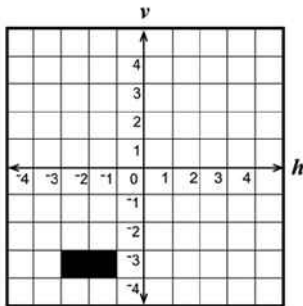
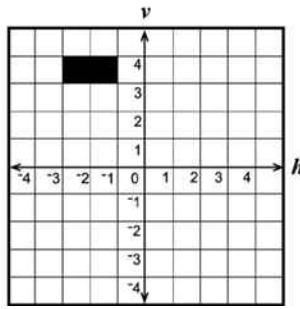
- P - 4, Q - 6, R - 6, S - 4
- P - 2, Q - 1, R - 9, S - 8
- P - 2, Q - 10, R - 2, S - 6
- P - 6, Q - 4, R - 2, S - 8

38. Luis is going to toss two coins.
What is the probability that he will toss one head and one tail?

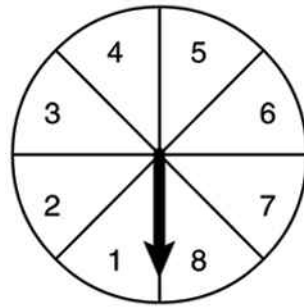
- $\frac{1}{4}$
- $\frac{1}{3}$
- $\frac{1}{2}$
- $\frac{3}{4}$

ADMINISTER ON SCREEN
ONLY

39. The dark rectangle is reflected over line v . Which shows this reflection?

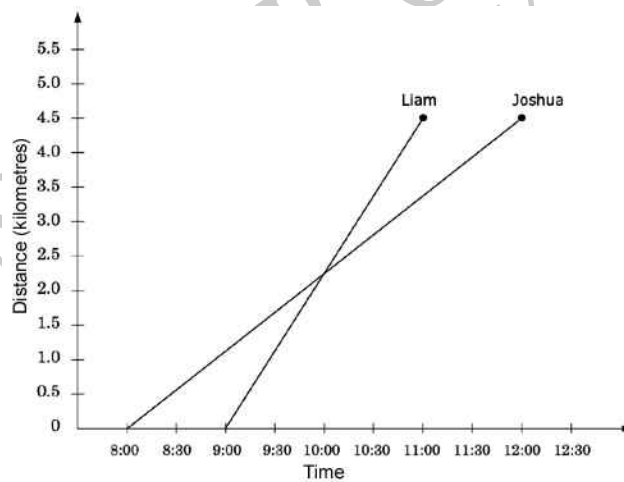


40. The spinner shown below is used to play a game.
 What is the probability that the arrow will land on a number greater than 5?



- $\frac{3}{5}$
- $\frac{3}{8}$
- $\frac{5}{8}$
- $\frac{1}{3}$

41. The graph represents the distance and time of a hike taken by Joshua and Liam.
 If they both started from the same place and walked in the same direction, at what time did they meet?



- 8:00
- 8:30
- 9:00
- 10:00
- 11:00

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

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

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

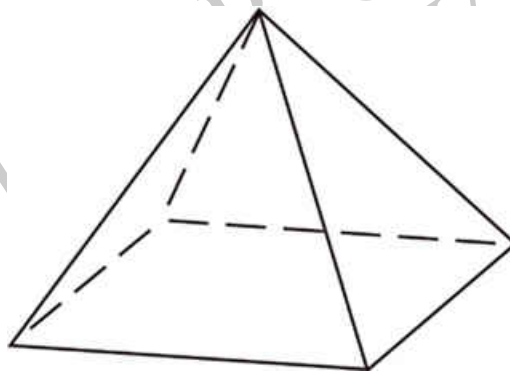
Stem	Leaf
6	2, 8
7	1, 3, 8
8	0, 7
9	3

Stem	Leaf
6	2, 8
7	1, 3, 8
8	7
9	3

Stem	Leaf
6	2
7	3
8	2
9	1

Stem	Leaf
6	1, 0
7	1, 2
8	7
9	3

43. Which row below **BEST** describes the number of faces, edges and vertices (corners) in this pyramid?



Faces	Edges	Vertices (corners)
4	5	8

4	8	5
---	---	---

5	5	8
---	---	---

5	8	5
---	---	---

44. To prepare for a regional competition, Keith practised on his skateboard 12 hours each week for 18 weeks.

How many hours did Keith practise in all?

- 216
- 192
- 116
- 30

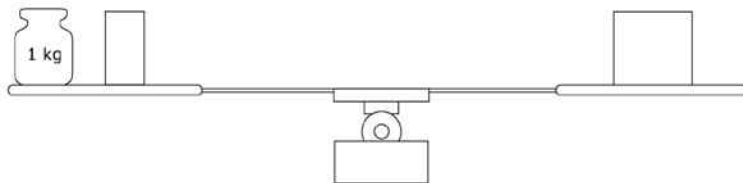
45. Which of the following statements is **NOT TRUE** about all three numbers shown below?

25, 81, 49

- They are all square numbers.
- They are all odd numbers.
- They are all multiples of 3.
- They are all greater than 17.

46. The objects on the scale make it balance exactly. On the left pan there is a 1 kg weight (mass) and half a brick. On the right pan there is one brick.

What is the weight (mass) of one brick?



- 0.5 kg
- 1 kg
- 2 kg
- 3 kg

47. 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

48. (2, 5), (4, 9), (6, 13)

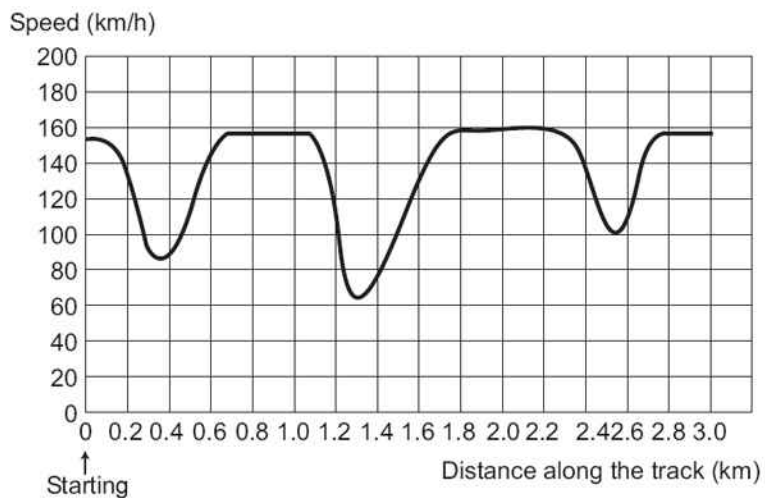
Which of the following describes what to do to the first number in each ordered pair shown above to obtain the corresponding second number?

- Add 3
- Subtract 3
- Multiply by 2
- Multiply by 2 and subtract 1
- Multiply by 2 and add 1

Use the following information to answer question 49..

This graph shows the speed of a racing car along a flat 3 kilometre track during its second lap.

Speed of a racing car along a 3 km track (second lap)



49. What can you say about the speed of the car between the 2.6 km and 2.8 km marks?

- The speed of the car remained constant.
- The speed of the car increased.
- The speed of the car decreased.
- The speed of the car cannot be determined from the graph.

50. The Sojourn family went on a vacation. They started with \$2000. If they spent \$150 each day, which expression represents how much money they had after x days?

- $1850x$
- $2000 - 150x$
- $150x$
- $2000 + 150x$

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

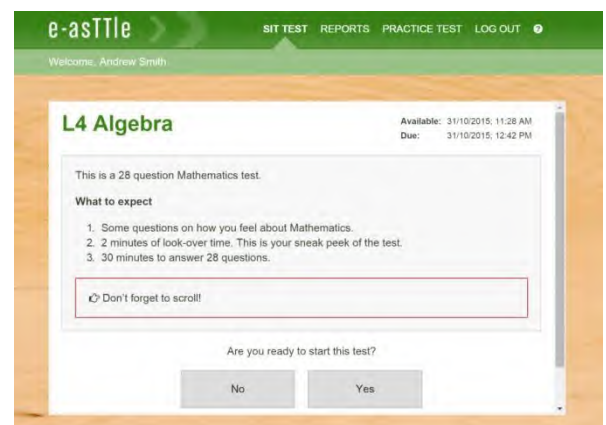
1. Check equipment

- 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.