

2006



YEAR 8

SECONDARY NUMERACY ASSESSMENT PROGRAM

Print your name here: _____

First Name:

Last Name:

Print the name of your school here: _____

School Code:

Region Code:

1. Are you in Year 7 or 8?

- Year 7 Year 8

2. Are you a boy or a girl?

- boy girl

3. How old are you today?

- 12 or younger
 13
 14 or older

4. Are you of Aboriginal or Torres Strait Islander origin?

If both Aboriginal and Torres Strait Islander origin, mark both "yes" bubbles.

- no yes, Aboriginal
 yes, Torres Strait Islander

5. Do you speak a language other than English at home?

- yes no

If "no" for question 5, please stop here.

If "yes", answer questions 6 and 7.

6. Does your mother or father or caregiver speak a language other than English at home?

- yes no

If you have answered "yes" to questions 5 or 6 then answer question 7.

7. How many years have you been at an Australian school?

- less than 1 year
 1 to 3 years
 3 to 7 years
 more than 7 years

INFORMATION BELOW TO BE COMPLETED BY TEACHERS ONLY

Teachers – please complete this section if this student received special provisions to complete parts of the test.

The student accessed support in the following sections of the test:

- Extended tasks Short responses Connected responses



2-673987-1

The student accessed the following special provisions:

- Large Print Braille Assistive technology Oral sign support Adjustable furniture
 Separate supervision Extra time Scribe Reader (for Numeracy ONLY)
 Other (specify)

The student is enrolled in a Support Class: yes no

Teachers – please complete this section if this student was absent for 1 or 2 complete parts of the test

- Extended response Task 1 and/or Extended response Task 2 and/or
 Short responses and/or Connected responses

Section 1 – Extended Responses

Task 1: Tour de France

Note: Where space is provided you must show your working.

Use the map of the Tour de France on page 2 of the magazine to answer Part A.

Part A – Map

The Tour de France is the most famous bicycle race in the world. The race is completed in stages.

The map of the Tour de France shows each stage of the race and the distances for each of the first five cycling stages.

1. How far did the cyclists ride by the end of stage 5?

Show working here

Answer _____

2. The total cycling distance for the race is 3600 km.

At the end of stage 5, how much further did the cyclists need to ride to complete the Tour de France?

Show working here

Answer _____

3. Use your instrument sheet and calculate the approximate distance from the beginning of stage 6 to the end of stage 6.

Approximate distance: _____

Part B – Stage 6

A team of four Australian students visiting France rode stage 6 of the race.

The team rode the first 100 km of stage 6 on one day. The students began the stage five minutes after each other. Kim was the first rider to begin.

The table below shows the order in which three of the students began stage 6.

4. Complete the table to record the missing information for Kim, Chris and Phil.

Times for 100 km ride

Student	Start Time	Finish Time	Time taken to ride 100 km
Kim	11:52 am	2:52 pm	
Chris	11:57 am	5:42 pm	
Phil			6 hours

Jesse was the fourth student in the team. The total time taken by all four members of the team to ride 100 km was 20 hours.

5. Calculate the time it took Jesse to ride 100 km.

Show working here

Jesse took _____ hours _____ minutes.

6. Show how to work out Phil's average speed in kilometres per hour.

Show working here

Part C – Fitness Plan

The students who rode stage 6 of the Tour de France prepared for the race by following a 5-week fitness plan.

Fitness Plan

Activity	Number of sessions per week	Time per session				
		Week 1	Week 2	Week 3	Week 4	Week 5
Swimming	3	30 min	60 min	90 min	___ min	150 min
Weights	3	10 min	14 min	22 min	___ min	70 min
Cycling	5	10 min	25 min	55 min	___ min	235 min

7. The numbers in each row of the table from Week 1 to Week 5, make a pattern. Write the missing number of minutes per session that should be spent on each activity in Week 4, to complete each pattern.

8. What is the total time spent on the fitness plan for Week 1?

Show working here

Answer _____

9. How many more minutes were spent doing the fitness plan in Week 3 than in Week 1?

Show working here

Answer _____

STOP HERE

Marked by			
Checked by			

Part A			Part B				Part C									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	2		2	2						2	2	2			2	
na			na				na									

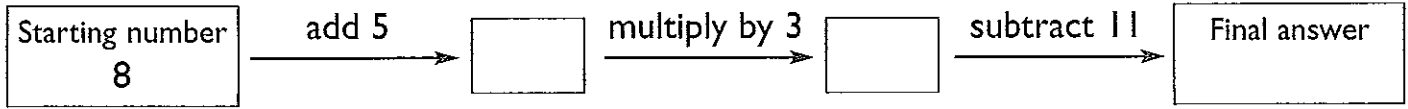
Non-attempt confirmed by			

Task 2: Puzzling with Numbers

Note: Where space is provided you must show your working.

Part A – Follow the rule

Pat followed this rule. She started with 8.



1. What is the correct final answer using Pat's starting number of 8? _____

Robert followed the same rule using a different starting number.

Robert made no mistakes in his calculations. Robert's correct final answer was 40.

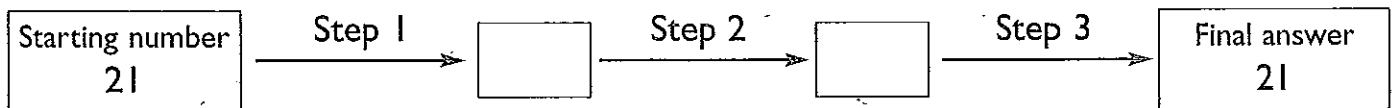
2. What number did Robert start with? Show how to work out the starting number.

Show working here

Robert started with _____.

Part B – Order the steps

Chris followed a different rule. There were three steps. Chris started with the number 21 and ended up with a final answer of 21.



3. Write the numbers from 1 to 3 on the lines below to show an order of steps Chris followed.

Step _____ add 7

Step _____ divide by 3

Step _____ double the number

4. Explain fully how you chose the order of these steps.

Marked by

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Checked by

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Part A		Part B		Part C			Part D		
1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
	2		2		2	2	2		
na		na		na			na		

Non-attempt confirmed by

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Part C – Emily’s quiz

Emily thought of a number for a class quiz. She did not want the class to guess her number straightaway and she did not want to make the hints too easy. She gave these 3 hints to the class.

- My number has 2 digits.
- My number is less than 40.
- My number can be divided exactly by 6.

5. List all the numbers which match all of Emily’s hints. _____
6. Emily’s number was actually $\boxed{24}$. Write a fourth hint, to use with the other 3 hints, so the class can work out that the correct number is $\boxed{24}$. Your hint must be as challenging as possible. The class should not be able to work out the correct number from this hint alone. _____
7. Explain why your hint, when used with Emily’s 3 hints, helps the class to work out Emily’s number.

Part D – Brett’s quiz

Brett also thought of a number for the class quiz. His number was $\boxed{252}$. He did not want the class to guess his number straightaway or to make the hints too easy.

8. From the list below choose 3 hints which Brett could give the class.
- Complete the information for 3 hints only.
 - All 3 hints can be used together to help the class work out Brett’s number.
 - The class should not be able to work out Brett’s number from one hint alone.

REMEMBER – Tick the boxes for the 3 hints you used and write the missing information.

- My number can be divided exactly by _____.
- My number has _____ digits.
- The average of the digits in my number is _____.
- My number, rounded to the nearest 100, is _____.
- My digits, when multiplied together, give _____.
- My number is between _____ and _____.
- My number is a palindrome because _____.

Show working here

STOP HERE

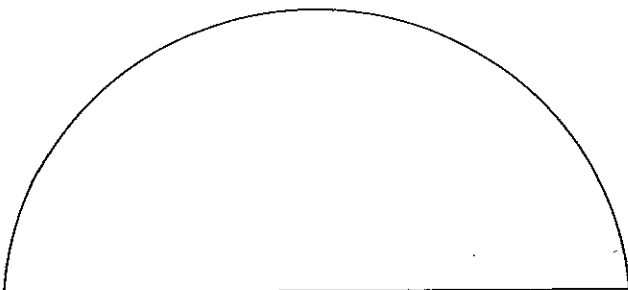
Section 2 – Short Responses

PRACTICE QUESTIONS

- A. Lunch costs \$1.20 a day.
How much does lunch cost for 3 days?

- \$1.20 \$3.60
 \$2.40 \$4.60

- B. Draw the axis of symmetry of this shape.



Use the table *DISTANCES FROM TOKYO* on page 8 of the magazine to answer questions C and D.

- C. How far is London from Tokyo?

Write your answer in the box.

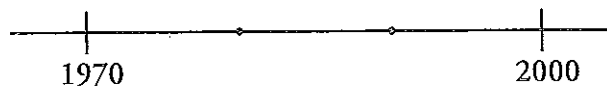
km

- D. Which city is the greatest distance away from Tokyo?

- Melbourne
 London
 Toronto
 New York
 Auckland

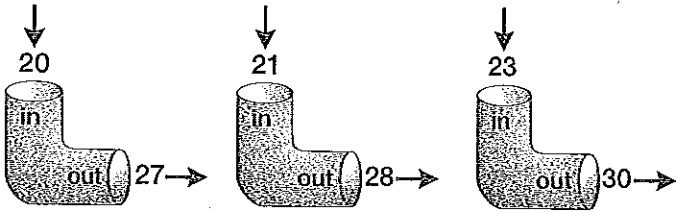
- E. Jessica was born in 1990.

Mark this date on the timeline in this way: |



Start of Section 2

1. Joel made this number machine.



Numbers that go into the machine are changed to a different number using a rule.

Which one of these shows the rule used by Joel's machine?

- add 1
 add 3
 add 7
 add 10

2. Matt drew a circle. He divided the circle into quarters.

What is one-quarter of a circle called?

- circumference
 semi-circle
 quadrant
 sector

3. Channel 64 has a news update every hour from 6:00 pm until 10:00 pm. Ray watched Channel 64 from 7:30 pm until 9:05 pm.

What is the chance that Ray would have seen a news update?

- certain
 impossible
 likely
 unlikely

4. What is the next number in this pattern?

123, 132, 141, 150, ____.

Write your answer in the box.

5. A group of Year 7 students tested their fitness by counting the number of sit-ups they could do.

Their results are shown below.

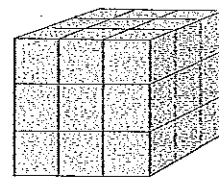
Student	Number of sit-ups
Tom	61
Bianca	42
Dario	28
Kate	53

What was the average number of sit-ups these students could do?

- 41.0
 42.0
 44.5
 46.0

6. Marcus built this solid model using 1 cm cubes.

He painted the outside of his model with blue paint.



How many 1 cm cubes have no painted faces?

Write your answer in the box.

Use your instrument sheet to answer this question.

7. Phillip is a didgeridoo player. He wants to take his didgeridoo onto a plane. The plane will not take items longer than 277 cm.

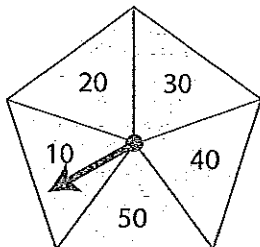


Scale
1 cm : 40 cm

Which one of these statements is correct?

- The didgeridoo is 77 cm too long.
- The didgeridoo can fit with 77 cm to spare.
- The didgeridoo is 123 cm too long.
- The didgeridoo can fit with 123 cm to spare.

8. Jenny used this spinner to choose a number.



What is the chance that the arrow on the spinner will stop on 30?

- 10%
- 20%
- 60%
- 100%

9. Here is a number pattern. Two numbers are missing.

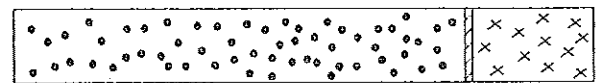
26, 27, 30, 31, 34, __, __, 39, 42.

Which two numbers are missing from the pattern?

- 35 and 36
- 35 and 37
- 37 and 38
- 35 and 38

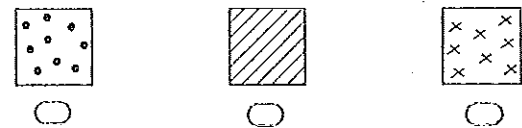
10. Steve drew a bar graph to show the percentage of different gases in air.

Gas	Percentage (%)
Nitrogen	78
Oxygen	21
Other gases	1



He forgot to draw a key.

Which section of the bar graph shows the percentage of oxygen in air?

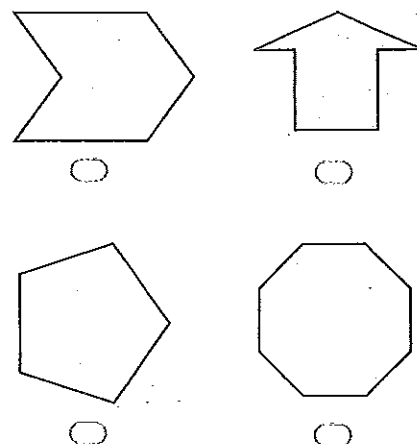


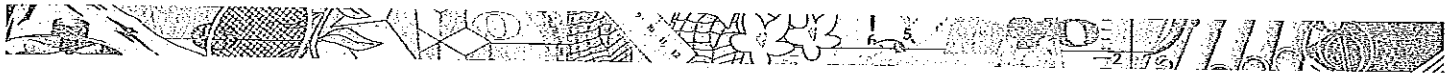
11. The opal, *Olympic Australis*, was found at Coober Pedy in August 1965. It has a mass of 3450 grams.

Which operation shows the correct way to convert the mass of this opal to kilograms?

- 3450×100
- 3450×1000
- $3450 \div 100$
- $3450 \div 1000$

12. Which one of these shapes is a hexagon?





13. Tran wrote this pattern of 5 numbers.

$$1\frac{3}{10}, 2\frac{5}{10}, 3\frac{7}{10}, \text{---}, 6\frac{1}{10}.$$

What is the missing number in Tran's pattern?

- $4\frac{8}{10}$ $5\frac{8}{10}$
 $4\frac{9}{10}$ $5\frac{9}{10}$

14. Carl made a pattern of 1 red bead and 4 yellow beads in this order.



He made the pattern 10 times.

Carl then finished the pattern with 1 red bead.

How many beads did Carl use altogether?

- 40
 41
 50
 51

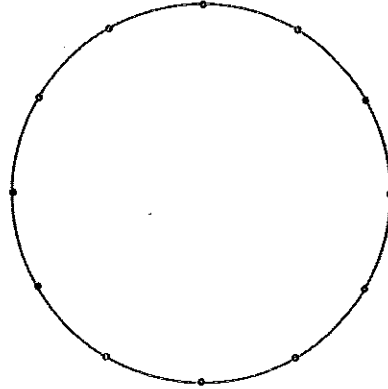
Use the MUSICAL NOTATION CHART on page 7 of the magazine to answer this question.

15. The following 4-bar rhythm patterns were composed by some music students.

Which student wrote a 4-bar rhythm pattern with 16 beats?

- Carol
 George
 Penny

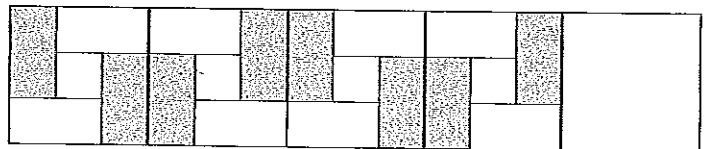
16. Join a set of dots on the circumference of this circle to make a pentagon.



17. Look at this tile.



This tessellating pattern was made by reflecting the tile.



Draw the next tile in this pattern.

18. Lachlan made a three-dimensional model using 8 straws. He used plasticine to join the straws at the corners of his model. His model had a square base.

Which one of these models did he make?

- cube
 rectangular pyramid
 square pyramid
 triangular prism

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19. Peppi threw a ball at a target.

Peppi's Results	
Throws	Hits
1	0
2	1
4	2
8	4
16	8

Peppi's pattern of throws and hits continued.

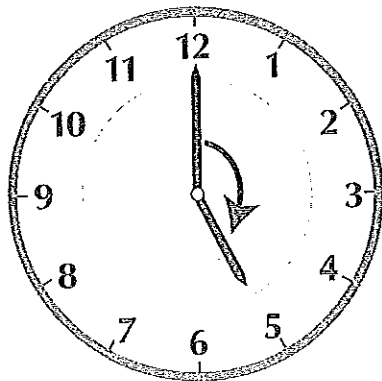
How many hits would Peppi get from 32 throws?

- 10 16
 12 64

Use your instrument sheet to answer this question.

20. This clock shows 5 o'clock.

What is the size of the angle between the hour hand and the minute hand?



Write your answer in the box.

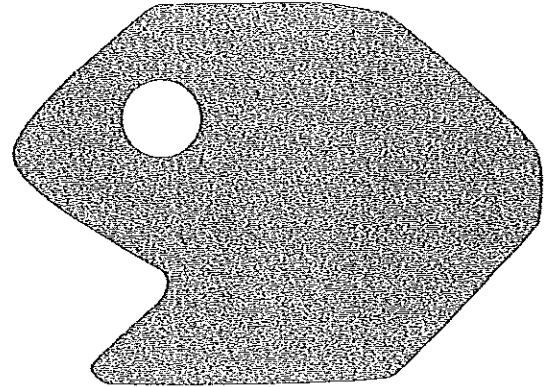
21. Mia drove her car at an average speed of 80 km/h for 320 km. She left at 1:00 pm.

What time did she finish her trip?

- 4:00 pm 5:00 pm
 4:20 pm 5:20 pm

Use your instrument sheet to answer this question.

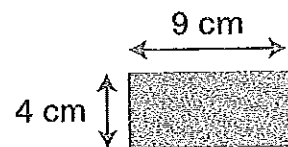
22. What is the area of the shaded section?



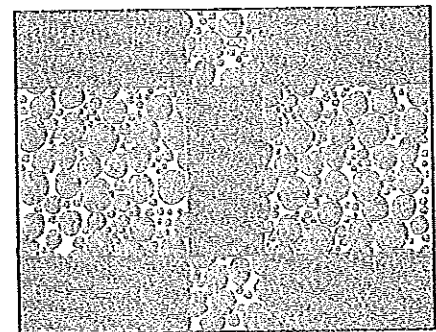
- about 25 cm²
 about 25 cm
 about 30 cm²
 about 30 cm

23. Lee designed a pattern for the school entrance.

He used round stones and tiles. The tiles look like this:



This is his design for the pattern.



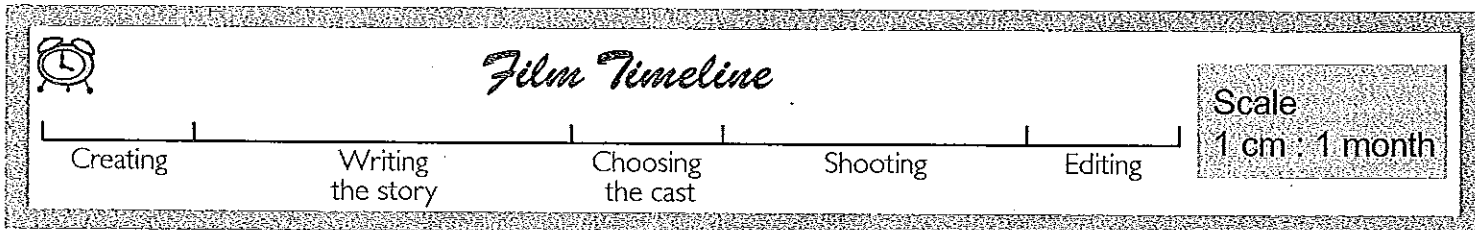
What is the perimeter of Lee's pattern?

- 26 cm 78 cm
 36 cm 374 cm
 68 cm



Use your instrument sheet to answer this question.

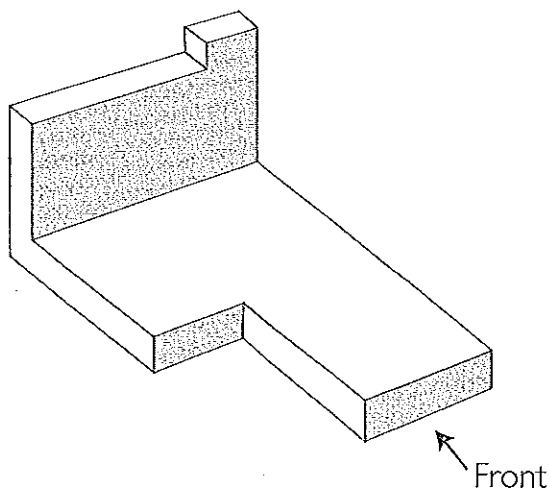
24. This film timeline shows the time taken for different stages in a film production.



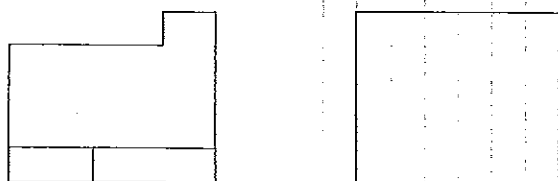
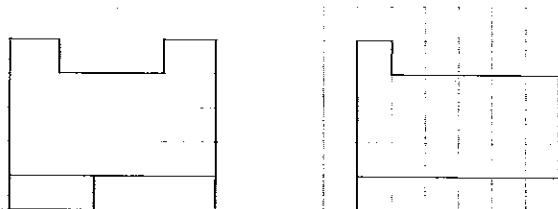
How many months did the film take to produce?

- 6 months
 12 months
 15 months

Look at this model.



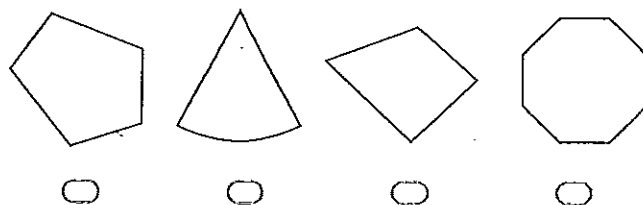
25. Which one of these shows the front view of the model?



26. $\frac{4}{5} + \frac{11}{12}$ is about

- 1 15
 2 17

27. Which shape has rotational symmetry?



28. Look at this number chart.

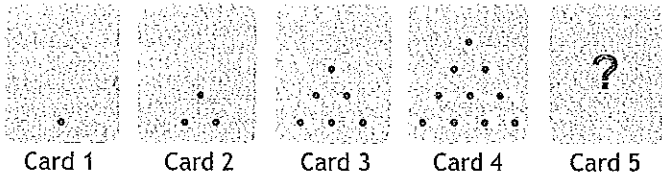
10	20	30	40	50	60	70	80	90	100
110	120	130	140	150	160	170	180	190	200
210	220	230	240	250	260	270	280	290	300

Jacki coloured the numbers 10, 40, 70, 100, 130 in that order.

Which number in the number chart should Jacki colour last if she continues to follow the same pattern?

- 250 290
 280 300

29. Look at these dot cards. The dots make a pattern.



How many dots are needed for card 5?

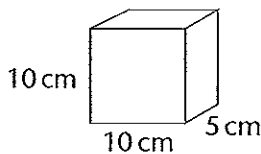
- 5 16
 15 20

30. Jim used square pavers, each with an area of 3600 cm^2 , to build a garden path.

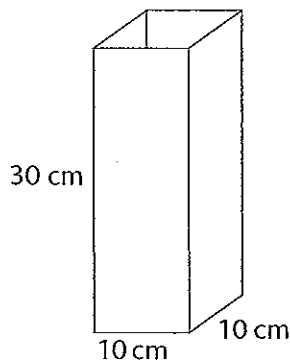
How many pavers did he lay in a single row to make a garden path 3.0 m long?

- 5 18
 6 108

31. Fran made prisms like this.

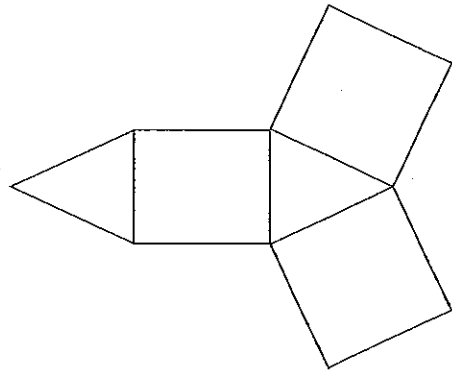


How many of Fran's prisms will completely fill this container?



- 2 6
 3 10
 5

32. Anna cut out this net.



What three-dimensional object did she make when she folded the net?

- a rectangular prism
 a rectangular pyramid
 a triangular prism
 a triangular pyramid

Use the table *JORDAN'S DAILY PACES* on page 3 of the magazine to answer questions 33 and 34.

33. On what day did Jordan walk about $\frac{3}{4}$ of the number of recommended paces?

- Monday
 Tuesday
 Wednesday
 Thursday
 Friday

34. What is Jordan's number of paces for Saturday, rounded to the nearest thousand?

- 12 000
 12 800
 12 900
 13 000

35. This table shows some substances and their melting points.

Substances	Melting Point (°C)
Tin	232
Mercury	-39
Copper	1083
Iron	1535

Which list shows these melting points in order from lowest to highest?

- 1535°C, 1083°C, 232°C, -39°C
 -39°C, 232°C, 1535°C, 1083°C
 232°C, -39°C, 1083°C, 1535°C
 -39°C, 232°C, 1083°C, 1535°C

36. Some plastics shrink when heated.

In a science lesson, Jamie had a plastic chip packet which measured 12 cm x 12 cm. Jamie then heated the chip packet in an oven. After heating, the chip packet measured 5 cm x 5 cm.

By how much had the area of the chip packet changed?

- 25 cm² 144 cm²
 49 cm² 169 cm²
 119 cm²

37. Rani investigated a seating plan for a hall using this table.

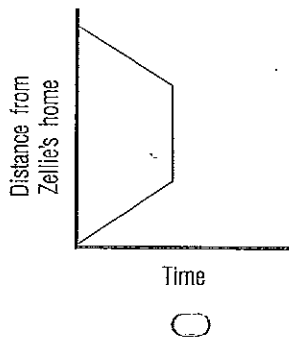
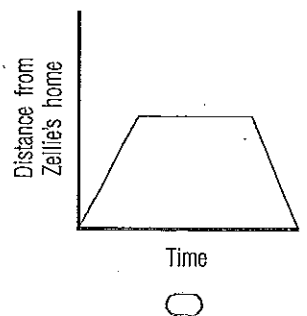
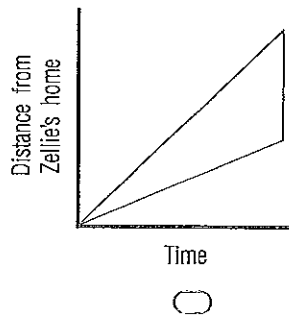
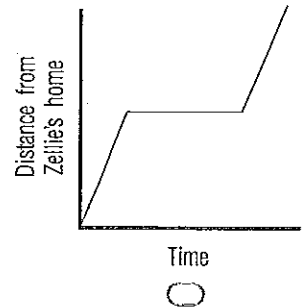
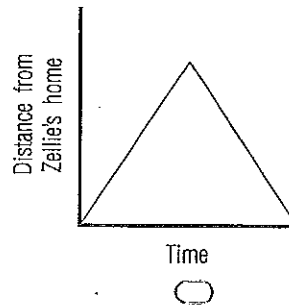
Number of desks	2	3	4	5
Number of people seated	10	14	18	?

What rule did Rani use to work out how many people can be seated at 5 desks?

- number of people seated = number of desks
 number of people seated = number of desks + 8
 number of people seated = number of desks x 5 - 1
 number of people seated = number of desks x 4 + 2

38. Zellie walked from home to her friend's house, stayed for a while, then walked back home.

Which graph best displays this information?



Use the table **SOME EVENTS IN ANCIENT ROMAN HISTORY** on page 3 of the magazine to answer this question.

39. Zena was asked to draw a timeline to plot all of the events from the table. The timeline needed to be 14 cm in length.

Which scale would be the most appropriate to use?

- 1 cm to 100 years
 1 cm to 10 years
 1 cm to 50 years
 1 cm to 25 years

40. Max wrote this pattern of 5 numbers.

15, 21, 27, 33, 39.

Which statement describes his pattern?

- Max started at 15 and counted on by 6.
- Max started at 15 and counted on by 7.
- Max started at 15 and counted on by 6, then by 7, then by 8.
- Max started at 15 and counted on by 5, then by 6, then by 7.

Use the graph FAVOURITE ICE-CREAM FLAVOURS on page 4 of the magazine to answer this question.

41. Which flavour of ice-cream did about 25% of the students choose?

- caramel
- chocolate
- strawberry
- vanilla

42. Sal wrote this *What Am I?* card to describe a three-dimensional object.

What Am I?

I have 6 faces.

I have 12 edges.

I have 8 vertices.

None of my faces is square.

What object did Sal describe?

- a cube
- a rectangular prism
- a rectangular pyramid
- a square prism
- a square pyramid

43. Natalie paddled 402 km of the Murray River in her canoe over 6 days. She paddled the same distance each day.

How far did Natalie paddle each day?

Write your answer in the box.

Use SIMONE'S PATTERN on page 4 of the magazine to answer this question.

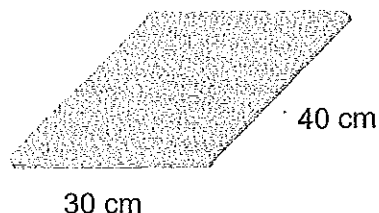
44. Simone made a design using sticks. She changed the design, by adding extra sticks to the first hexagon. She discovered a pattern.

Which statement about Simone's pattern is correct?

The number of sticks is the same as

- the number of hexagons plus 5
- the number of hexagons multiplied by 5, minus 1
- the number of hexagons multiplied by 6
- the number of hexagons multiplied by 6, minus 1
- the number of hexagons multiplied by 5, plus 1

45. Omar rolled out a piece of clay. It was 30 cm wide and 40 cm long.



How many tiles 10 cm x 10 cm could he cut from this clay?

- 7
- 12
- 14
- 70
- 120

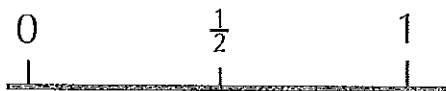
Use your instrument sheet to answer this question.

46. Gemma had a tin of jellybeans. The tin contained 60 green, 20 red, 10 black and 10 white jellybeans.

Without looking, Gemma chose a jellybean from the tin.

On the chance scale below, accurately show the chance of Gemma picking a red jellybean.

Put a mark on the scale in this way: |



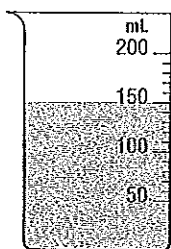
Chance Scale

47. Kim experimented to find the volume of a rock.

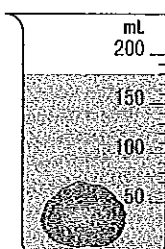


Kim used this information:

1 cm³ displaces 1 mL of water.



Before



After

What is the volume of this rock?

- 30 cm³
 50 cm³
 100 cm³
 180 cm³

48. Look at these number sentences.

$$\bigcirc + \bigcirc = 6$$

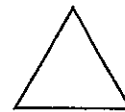
$$\triangle + \bigcirc = 12$$

The number sentences are correct.

What are the values of the triangle and the circle?

- $\triangle = 15$ and $\bigcirc = 3$
 $\triangle = 3$ and $\bigcirc = 9$
 $\triangle = 4$ and $\bigcirc = 8$
 $\triangle = 9$ and $\bigcirc = 3$

49. Which shape is irregular?



Use the graph **TEMPERATURE OF HEATED WATER** on page 5 of the magazine to answer this question.

50. Ronnie and Peta recorded the temperature change as they heated a beaker of water. The graph *Temperature of heated water* shows their results.

What was the change in temperature between the 4th and 7th minute?

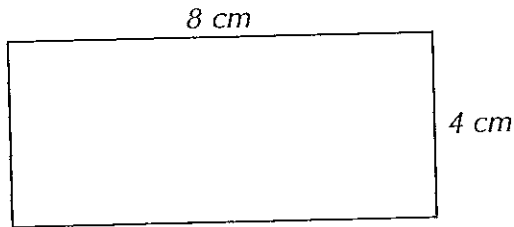
- 21°C 40°C
 30°C 70°C

STOP HERE

Section 3 – Connected Responses

PRACTICE QUESTIONS

A. Nino wrote about this 2D shape. Some of the information is missing. Colour the bubble to show the information which will correctly complete each statement.



This shape has 4 sides. It is called a *****.
 The length of the shorter side is 4 cm and
 the length of the longer side is ***** cm.

- circle rectangle square triangle
- 8 12 24 32

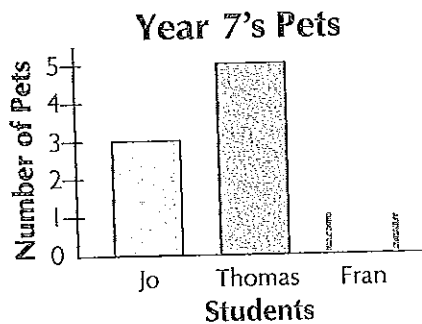
B. Paul wrote part of the instructions for making a chocolate milkshake. He made some mistakes in his writing. His mistakes have been circled. Colour the bubble which gives the correct information.

Chocolate Milkshake

Combine 250 (cm) of milk with
 three tablespoons of chocolate
 flavouring and two scoops of
 ice-cream in a one (kilometre) shaker.

- mL kg km
- kilogram metre litre

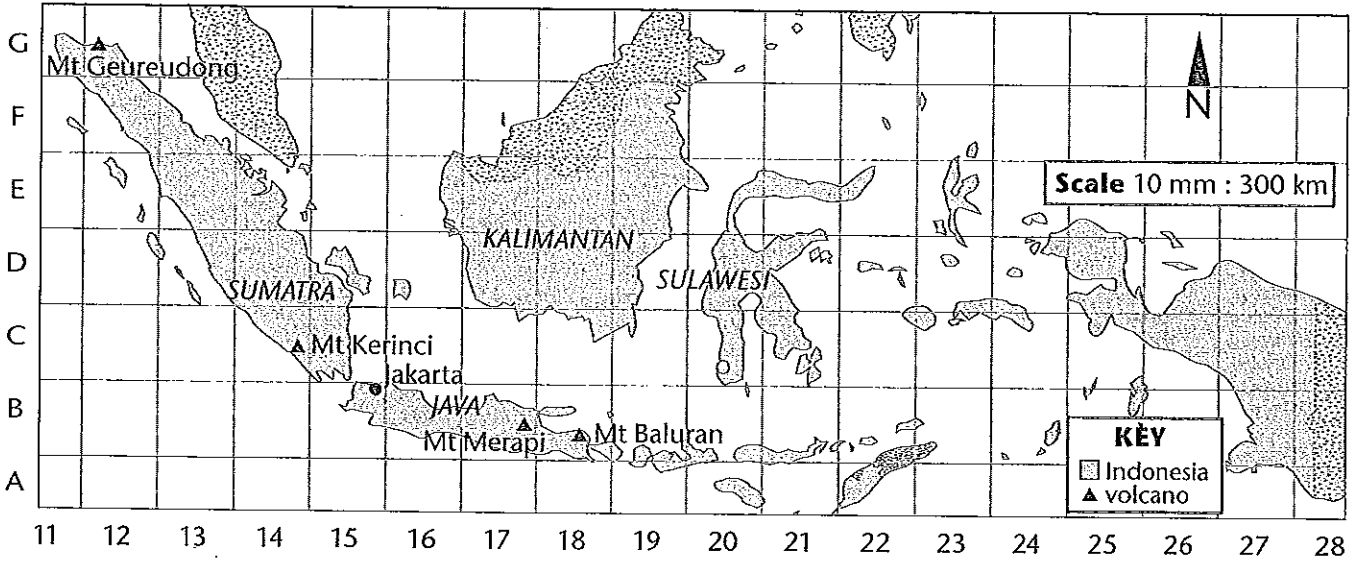
C. Fran has two pets. Complete the graph to show this.



Start of Section 3

1. Indonesia has many volcanoes. Four of the volcanoes are shown on this map.

INDONESIA



Paul used the information from the map of Indonesia to write a report.

Some of the information is missing. Colour the bubble to show the information which correctly completes each statement.

- 1a. The coordinates for Mt Baluran are ****.
 - 1b. Mt Geureudong is about **** kilometres from Jakarta.
 - 1c. The general direction of Mt Geureudong from Mt Kerinci is ****.
- 17A 17B 18A 18B
 570 1700 5700
 south-east north-east
 south-west north-west

752219

Use the information in the table RENAISSANCE PAINTINGS on page 6 of the magazine to answer these questions.

2. Michael used the information from the table RENAISSANCE PAINTINGS to write a report. He made some errors in his report. His errors have been circled. Colour the bubble to show the correct information.

- 2a. The painting with the largest area is La Primavera.
 - 2b. The *Last Supper* was painted about 300 years ago.
 - 2c. The oldest artwork is Transfiguration.
- Last Supper Transfiguration Assumption of the Virgin
 400 500 600
 La Primavera Last Supper Assumption of the Virgin

Use the information in the table AVERAGE MONTHLY TEMPERATURES IN ITALY on page 5 of the magazine to answer these questions.

3. Simon used the table AVERAGE MONTHLY TEMPERATURES IN ITALY to write a report. Some of the information in his report is missing. Write the missing information in the boxes provided.

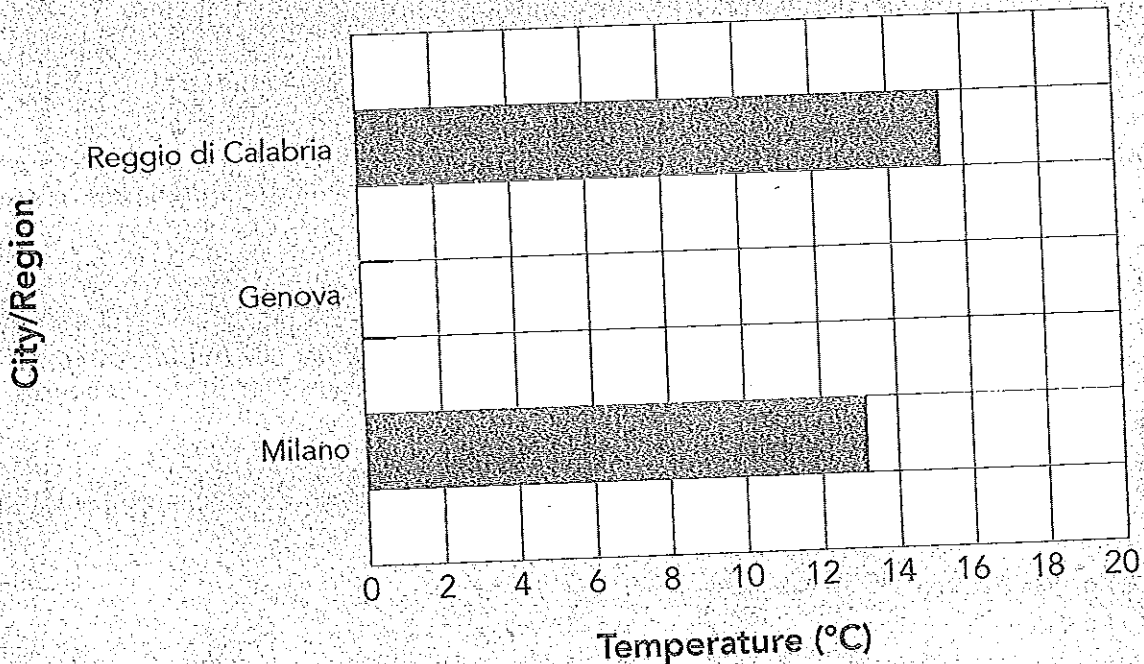
3a. The coldest month is *****.

3b. The city with the coolest weather throughout the year is *****.

3c. In September, the difference in the average monthly temperature for Milano and Firenze is *****.

3d. Complete the graph to show the temperature for Genova for April.

Some average monthly temperatures for April



4. A Year 7 class was asked to give one reason why they liked a novel they had read. Here are their reasons.

Class Novel Survey

Reasons	Number of students
Good characters	5
Realistic setting	2
Exciting events	11
Interesting ideas	4
Great ending	8

Chloe wrote a report on the survey but she made some mistakes. Her mistakes have been circled. Colour the bubble that gives the correct information.

4a. More students in the class liked the novel because of its realistic setting than for any other reason.

- good characters interesting ideas
 exciting events great ending

4b. Interesting ideas was the reason given by the least number of students, for liking the novel.

- Good characters Exciting events
 Realistic setting Great ending

4c. Twice as many students chose the reason exciting events as interesting ideas.

- good characters exciting events
 realistic setting great ending

4d. Half of the class liked the novel because of the good characters and interesting ideas.

- good characters and great ending.
 realistic setting and great ending.
 exciting events and interesting ideas.
 interesting ideas and good characters.

5. Use the table *SOME ROMAN EMPERORS* to answer these questions.

SOME ROMAN EMPERORS

EMPEROR	YEARS RULED
Tiberius	14 – 37 AD*
Caligula	37 – 41 AD
Claudius	41 – 54 AD
Nero	54 – 68 AD
Vespasian	69 – 79 AD
Trajan	98 – 117 AD
Hadrian	117 – 138 AD
Antoninus Pius	138 – 161 AD
Marcus Aurelius	161 – 180 AD
Commodus	180 – 192 AD
Diocletian	284 – 305 AD
Constantine	306 – 337 AD

*AD is also known as CE (Common Era)

Hadrian ruled from 117 to 138 AD.
 Antoninus Pius ruled from 138 to 161 AD.
 Marcus Aurelius ruled from 161 to 180 AD.

5a. Which one of these emperors ruled for the least number of years?

- Caligula Commodus
 Claudius Constantine

5b. What was the average number of years Hadrian, Antoninus Pius and Marcus Aurelius ruled?

- 3 23
 21 63

Use your instrument sheet to answer this question.

5c. Diocletian began his rule as emperor in 284 AD.

Show this date on the timeline in this way: |



6. This table shows the cost of placing a full page advertisement in several magazines.

Advertising Costs

Magazine	Number of copies sold per week	Cost of full page advertisement
<i>Waves</i>	23 332	\$ 2500
<i>Vibes</i>	50 000	\$ 7530
<i>DJ Plus</i>	149 003	\$ 12 660
<i>Summertime</i>	151 157	\$ 25 430

Kerrie used the table to write a report. Some information has been left out.

Colour the bubble to show the information that correctly completes each statement.


- 6a. The cost of advertising in *Summertime* magazine is about **** the cost of advertising in *DJ Plus* magazine.
- one-third one-half twice three times
- 6b. *DJ Plus* magazine sold **** more copies per week than *Waves* magazine.
- 125 671 126 331 126 671 126 771
- 6c. The cost of placing a full page advertisement in *Vibes* magazine, when rounded to the nearest hundred dollars, is **** dollars.
- seven thousand seven thousand six hundred
 seven thousand five hundred eight thousand
- 6d. The cost of three full page advertisements in *Summertime* magazine is ****.
- \$25 430 \$65 290 \$66 290 \$76 290

752219

7. Use the table RESULTS OF TREE SURVEY to answer these questions.

Class 7S gathered data on the height and circumference of five trees in the playground.

Here are their results.



RESULTS OF TREE SURVEY

Tree	Height of Tree (m)	Circumference of Tree (cm)
1	7.2	86
2	10.8	122
3	3.4	57
4	8.6	95
5	7.5	100

7a. What is the average height of the five trees?

- 5.5 m
- 7.5 m
- 9.5 m
- 37.5 m

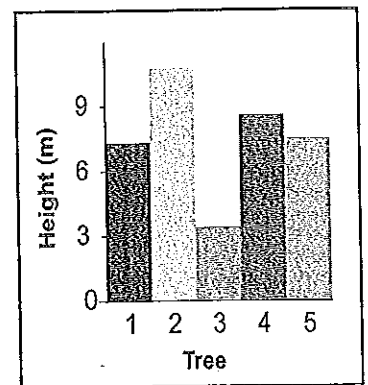
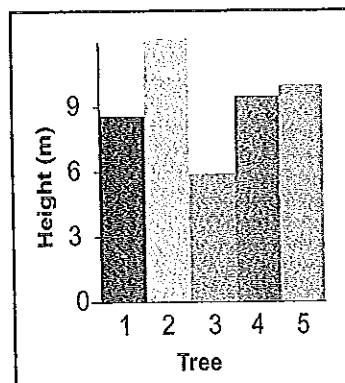
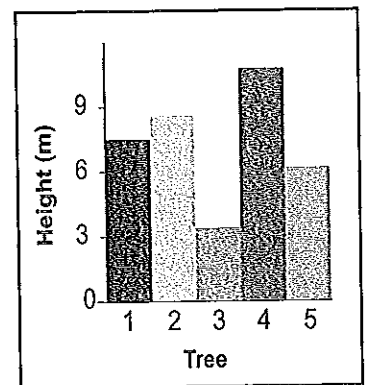
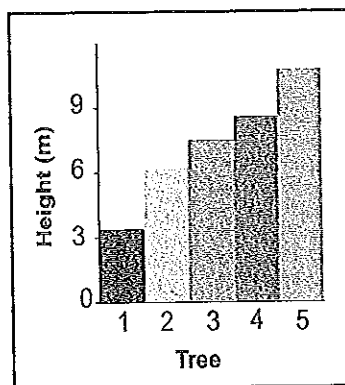
7b. What is the difference in height between the tallest tree and shortest tree?

- 7.4 m
- 7.6 m
- 7.8 m
- 14.2 m

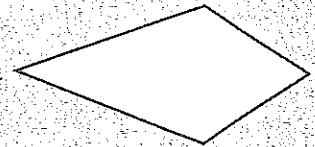
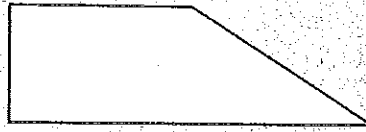
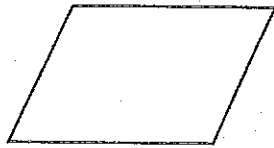
7c. What is the height in centimetres of tree 2?

- 1.08
- 100.8
- 108
- 1080
- 10 800

7d. Which graph displays the height of the five trees accurately?



8.



Petros described these quadrilaterals.

He left out some information. Colour the bubble to show the information which correctly completes each statement.

- 8a. This kite has ***** angles.
- 2 acute and 2 obtuse 4 acute
- 2 acute and 2 straight 4 straight

- 8b. The sum of all the angles in a quadrilateral equals *****.
- 90° 180° 270° 360°

- 8c. This trapezium has some ***** sides.
- diagonal perpendicular
- equal symmetrical

END OF TEST