

NATIONAL ASSESSMENT PROGRAM
LITERACY AND NUMERACY

NUMERACY

CALCULATOR ALLOWED



YEAR
7
2009



1052913 1

128_1297N

FIRST NAME: _____

LAST NAME: _____

Date of Birth: ____ / ____ / ____ GENDER: _____

SOUTH SYDNEY HIGH SCHOOL

530_8545



5308545 4

7404444

STUDENT TO COMPLETE

Please print your first name and last name below. Write in capital letters.

FIRST NAME

LAST NAME

TEACHER TO COMPLETE

Please indicate if any of the following apply for this test session. The student was

- absent exempt withdrawn sanctioned abandonment

Books for students in these categories **MUST NOT** be returned for processing.

Please indicate if student received special provisions to complete this test session.

The student accessed the following special provisions:

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

The student is enrolled in a Support Class: yes

PRACTICE QUESTIONS

P1 50, 100, 150, 200, 250,

Shade one bubble.

Which number comes next in this sequence?

- 251 260 300 350

P2 Jim gets paid \$10 per hour.
He worked for 5 hours.
How much did Jim earn?

Write your answer in the box.

\$

P3 \$1 = 100 cents

Complete the table.

\$	cents
1	100
2	200
5	

P4 Write one half as a fraction.

Write your answer in the boxes.

7404444

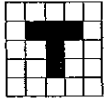
CALCULATOR ALLOWED

SESSION 1 Time available for students to complete test 240 minutes

Use 2B pencil only

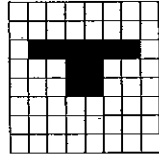
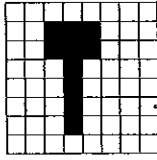
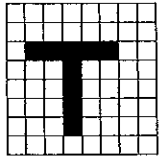
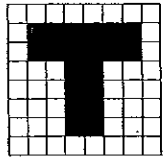


Trevor drew this shape on a grid.



He then doubled the height and width of the shape.

Which drawing shows this?



Shade one bubble.



= 2

= 3

+ = +

Which number does equal?

2

3

4

6

In 1894, women were granted the right to vote in South Australia.

By 2009, women in South Australia will have been able to vote for

113 years.

115 years.

125 years.

215 years.



4 Edward travelled 110 kilometres in 2 hours.

What was his average speed in kilometres per hour?

50

55

70

220

Shade one bubble.



5 Two places are 4.7 cm apart on a map.

On the map 1 cm represents 5 km.

What is the actual distance between the two places?

1.06 km

9.4 km

23.5 km

47 km

6 The area of Australia is 7 686 850 square kilometres.

What is this area rounded to the nearest thousand square kilometres?

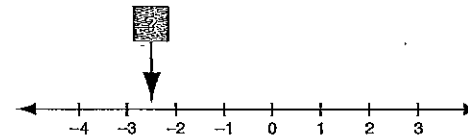
7 000 000

7 600 000

7 686 000

7 687 000

7



Write your answer in the box.



The arrow points to a position on the number line.

What number is at this position?

8 Sean wrote a number on a piece of paper.


If he multiplied his number by 5 and then divided by 2, the answer would be 30.

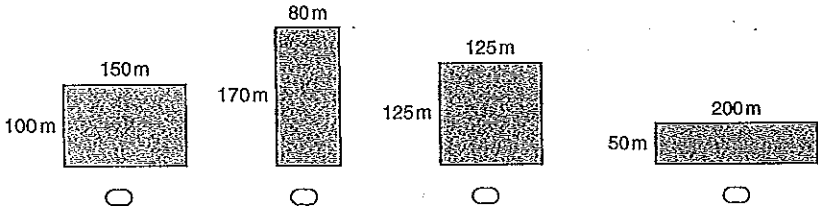
What was Sean's number?



A farm has 4 paddocks.

Which paddock has the largest area?

Shade one bubble. 







A water tank has a capacity of 6.25 kilolitres.

How many litres does the water tank hold when it is full?

- 625 6025 6250 62500
-

Four families flew to Australia.

The airline allows each person to have 22 kg of luggage.


Family name	Number of people	Mass of family luggage
Nguyen		61 kg
Boyd		87 kg
Clarke		111 kg
Agostini		131 kg

Which family had more than 22kg of luggage per person?

- Nguyen Boyd Clarke Agostini
-

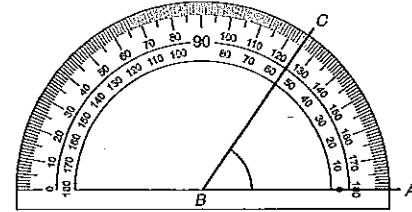


12 What number will make this number sentence true?

Write your answer in the box. 


$4.52 + 3.68 = \square + 3.70$

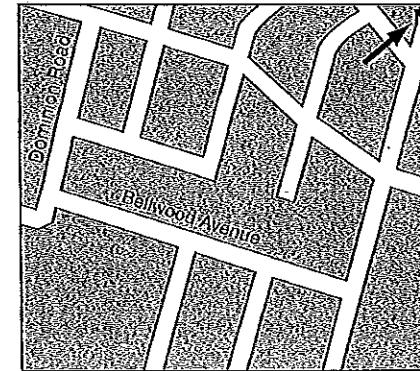
13



What is the size of angle ABC? °

14

Shade one bubble. 



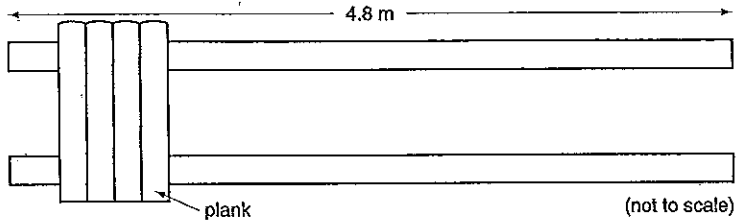
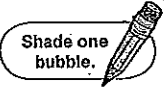
Tara is travelling along Bellwood Avenue towards Dominion Road.

What direction is Tara travelling?

- North-East North-West South-East South-West
-



Sam is building a wooden fence that is 4.8 metres long. He is using planks that are all 0.12 metres wide. There are no gaps between the planks.



How should Sam calculate how many planks he will need altogether?

- $4.8 \div 0.12$
- $0.12 \div 4.8$
- 4.8×0.12
- $4.8 - 0.12$

$45 \times \blacklozenge = 18$

What is the value of \blacklozenge ?

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| $\frac{2}{5}$ | $\frac{3}{5}$ | $\frac{5}{2}$ | $\frac{5}{3}$ |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

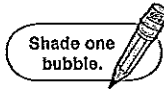
Alex bought 3 pieces of fish and a \$2 bag of chips. The cost was \$11.90.

What would 2 pieces of fish and a \$1 bag of chips cost?

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| \$9.90 | \$8.90 | \$8.60 | \$7.60 |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |



18 Zoe bought a bike on sale at 15% off the original price. The original price was \$420.



How much did Zoe pay for the bike?

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| \$63 | \$357 | \$378 | \$405 |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

19 A vase has 18 flowers in it. 12 flowers are blue.

What fraction of the flowers are blue?

- | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| $\frac{18}{12}$ | $\frac{6}{12}$ | $\frac{3}{4}$ | $\frac{2}{3}$ |
| <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

20 Harry sets his watch and his alarm clock to different times.

8:10

Watch



Alarm clock

When his alarm clock shows what time does his watch show?



11:50



10:50



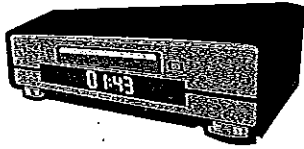
12:20



11:55



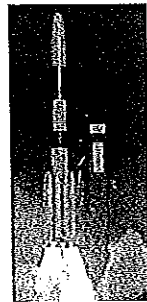
The DVD player shows the time of day as 01:43.
The movie still has 53 minutes to run.



Write your answer in the box.

What time will the DVD player show at the end of the movie?

This calculation gives the average speed (kilometres per hour) of a rocket over a small time interval.



$$\frac{62.735 - 6.855}{0.04}$$

What is the average speed of the rocket?

kilometres per hour

The diameter of a \$2 coin is about 2 cm.



About how much would a 1 km line of \$2 coins be worth?

- \$1000
 \$5000
 \$20000
 \$100000

24 This hexagon pattern is made with sticks.

Shade one bubble.

Hexagons					
Number of hexagons	1	2	3	4	10
Number of sticks	6	11	16	21	?

How many sticks are needed to make 10 of these hexagons?

- 51
 53
 55
 60

25 The mean (average) of five numbers is 34.
One more number is added and the mean becomes 35.
The number added is

- 34
 35
 40
 69

26 Emma used identical cubes to build a rectangular prism.
There were 12 cubes in its base.
She used 60 cubes altogether.

Which of these could be the dimensions of Emma's prism?


- $10 \times 1 \times 6$
 $2 \times 6 \times 10$
 $4 \times 3 \times 5$
 $3 \times 4 \times 6$

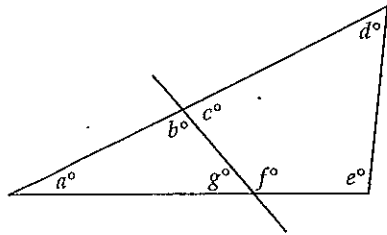
27 A rule to calculate the amount of medicine (mL) a child needs is:
Child amount = (*Adult amount* × *Age of child*) ÷ (*Age of child* + 12)
Use this rule to complete the table.

Write your answer in the box.

Adult amount (mL)	Age of child (years)	Child amount (mL)
10	8	

A triangle is divided into 2 parts by a straight line.
The angles are then labelled.

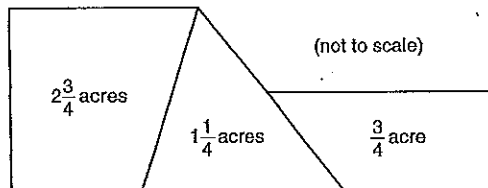
Shade one bubble. 



Which statement is true about the sum of angles?

- $a + b + c = 180$
- $c + d + e + f = 360$
- $a + b + g = 360$
- $a + g + f + e = 180$

This plan shows 3 blocks of land.
Their areas are measured in acres.




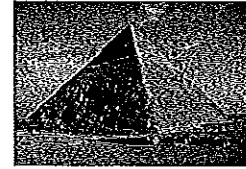
1 hectare = 2.47 acres

The total area of the 3 blocks in hectares is closest to

- 1.82
- 1.92
- 4.75
- 11.73

30 This pyramid has a square base.

Write your answer in the box. 




The area of the square base is 52 900 m².

What is the length (m) of one side of the base? m

31 Carlos has 3 times as many orange trees as lemon trees.
Altogether he has 76 trees.

How many orange trees does he have?

32 Sue draws a polygon.
It has a certain number of 120° angles
and the same number of 150° angles.
It has no other angles.

Shade one bubble. 

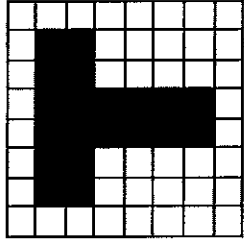
The polygon is

- a pentagon.
- a hexagon.
- an octagon.
- a decagon.

END OF TEST

NAPLAN Numeracy (with calculator) Year 7 2009
Quick Answers

1.



2. 4

3. 115

4. 55

5. 23.5 km

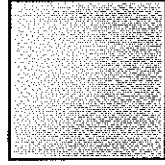
6. 7 687 000

7. -2

8. 12

9.

125m



125m

10. 6250

11. Clarke

12. 4.5

13. 55°

14. South-West

15. $4.8 \div 0.12$

16. $\frac{2}{5}$

17. \$7.60

18. \$357

19. $\frac{2}{3}$

20. 11:50

21. 2:36

22. 1397 km/h

23. \$100 000

24. 51

25. 40

26. $4 \times 3 \times 5$

27. 4 mL

28. $c + d + e + f = 360$

29. 1.92

30. 230 m

31. 57

32. an octagon.