

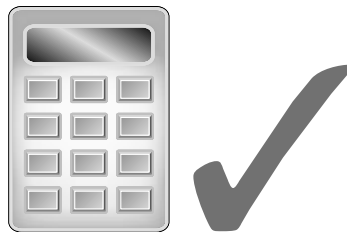
NAPLAN*-style

YEAR
7

SAMPLE TEST

NUMERACY

Calculator Allowed



FIRST NAME _____

LAST NAME _____

CLASS _____

SESSION 1

0:40

Time available for students to complete the Numeracy Test: 40 minutes

Use 2B or HB pencil **only**.



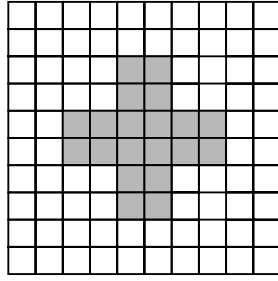
* This is not an officially endorsed publication of the NAPLAN program and is produced by Pascal Press independently of Australian governments.

YEAR 7 NUMERACY

Calculator Allowed

- 1 What percentage of this figure is coloured?

Fill in
one
circle.



15%

20%

25%

30%

- 2 Here is a sum that is made up of shapes. Each shape is a number. Only one of the numbers is given.

$$\triangle = 7$$

$$\blacksquare - \triangle = \triangle \times \triangle$$

Which number does the \blacksquare equal?

49

56

65

63

- 3 Many patients recovering from surgery died of infections before British surgeon Joseph Lister used antiseptics in 1865.

He was born in 1827 and died in 1912. How old was he when he died?



Source: Art Today

83

85

87

89

YEAR 7 NUMERACY

Calculator Allowed

- 4 The distance between Sydney and Los Angeles in California is about 12000 km. About how long would an A380 travelling at 900 km per hour take to fly from Sydney to California?

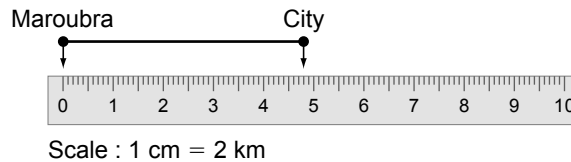
Fill in one circle.



- 13.0 hours
- 13.1 hours
- 13.3 hours
- 13.5 hours



- 5 On this indicator, how far is it from Maroubra to the City?



- 9.6 km
- 10.8 km
- 4.8 km
- 9.0 km

- 6 The toner for a printer costs \$65.50.



If you pay for the toner with a \$100 bill, how much change would you receive?

- \$33.50
- \$35.50
- \$35.00
- \$34.50

- 7 A boy cut a rope that was 14.5 m long into 2.9 m lengths. How many lengths did he cut?

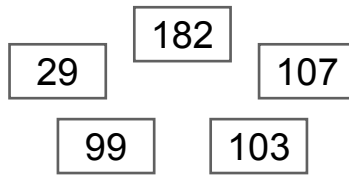


- 3
- 4
- 5
- 6

YEAR 7 NUMERACY

Calculator Allowed

8 Here are five numbers.



Fill in one circle.



Which two numbers should be subtracted one from the other to give an answer that can be rounded up to 75?

$99 - 29$



$103 - 29$



$182 - 103$



$107 - 29$

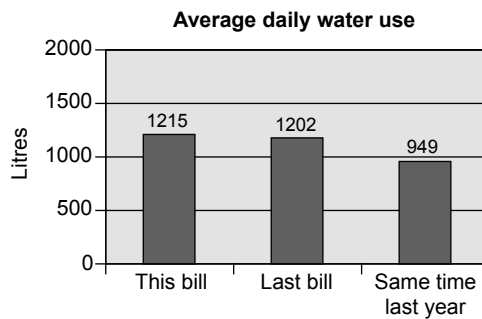


9 $35 - 7 \times 3 =$

Write your answer in the box.



10 This is a chart that shows how much water a household used a day.



By how much has their water use changed in this bill from the same time last year?

13 litres



266 litres



253 litres

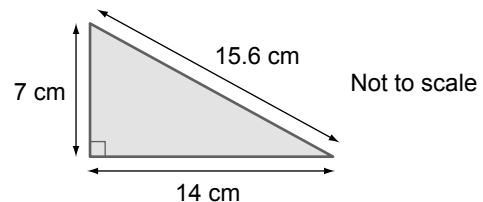


366 litres



11 Find the area of this figure.

- 49 cm²
- 36.6 cm²
- 98 cm²
- 196 cm²



YEAR 7 NUMERACY

Calculator Allowed

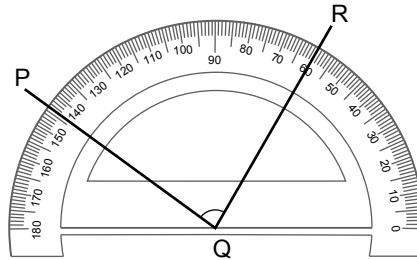
- 12** Complete this number sentence.

$$46.6 + 208.4 = \boxed{} + 30.3$$

Write your answer in the box.



- 13** What is the size of angle PQR?



Fill in one circle.



60°

90°

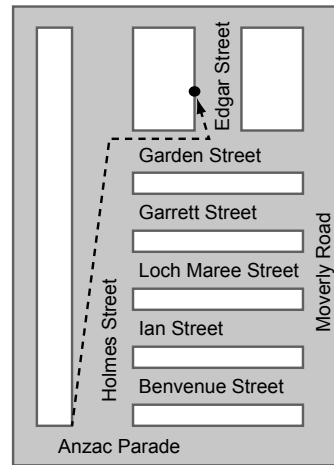
54°

84°

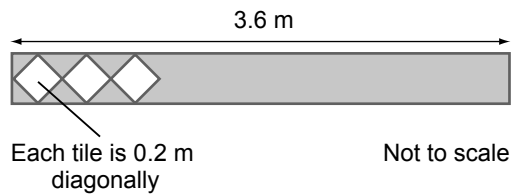
- 14** The path from the corner of Holmes Street and Anzac Parade to Edgar Street is shown by the dotted line. Follow the arrow.

In what direction is someone travelling from the beginning at Anzac Parade to the finish at Edgar Street?

- south
- south-east
- east
- west



- 15** Some tiles will be used to make a pattern. Each tile is 0.2 m diagonally. The distance to be tiled is 3.6 m.



How do we work out how many white tiles will be needed to fill the pattern?

$3.6 \div 2$

3.6×2

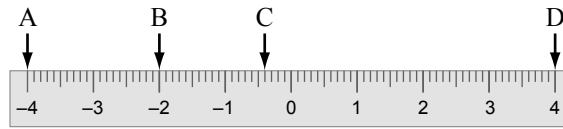
$3.6 \div 0.2$

3.6×0.2

YEAR 7 NUMERACY

Calculator Allowed

- 16** Which of the letters below is pointing to -0.4 ?

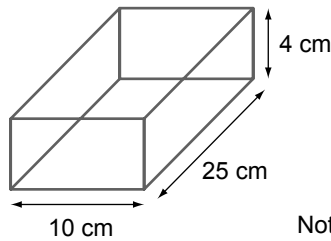


Fill in one circle.



- A B C D

- 17** This is a rectangular prism. What is the volume of this figure?

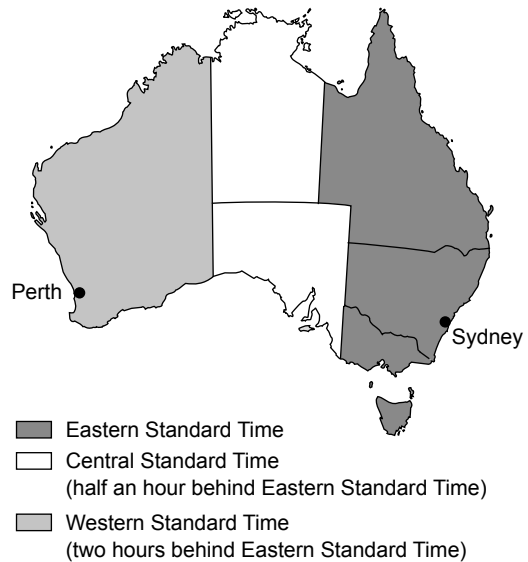


- 39 cm^3 1000 cm^3 100 cm^3 250 cm^3

- 18** This map shows the three different time zones in Australia. The time is different in each of these three areas.

If it is 4:00 pm in Perth (Western Standard Time), what would be the time in Adelaide (Central Standard Time)? (Hint: find Eastern Standard Time first.)

- 2:00 pm
 5:30 pm
 6:00 pm
 2:30 pm

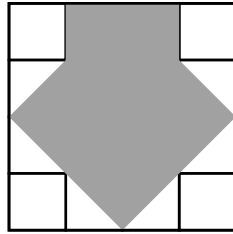


YEAR 7 NUMERACY

Calculator Allowed



- 19** Here is a shape. It contains squares. Some of the squares are all white, some are all grey and some are half grey and half white.



What proportion of the squares is half grey and half white?

$\frac{6}{8}$

$\frac{16}{6}$

$\frac{3}{8}$

$\frac{10}{16}$

- 20** The price of a game after a 25% discount was \$207. What was the price before the discount?

\$277

\$286

\$267

\$276

- 21** How many four-digit numbers can you make using the numerals 1, 2, 3 and 4? Each numeral can only be used once in each number.

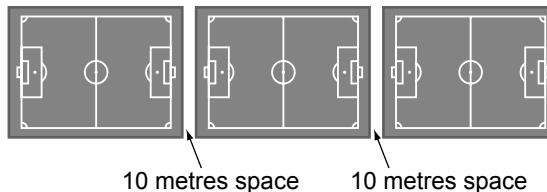
20

24

16

36

- 22** There are three soccer fields at my school. There is a 10 metre distance between each field. The perimeter of the three fields is 730 metres.



If the length of each soccer field at my school is 100 metres, what is its width?

40 metres

45 metres

50 metres

55 metres

YEAR 7 NUMERACY

Calculator Allowed

23 Here is a series of numbers.

23 34 27 38 31 ?

Fill in
one
circle.



What would be the next number?

40

41

42

43

24 You toss three 50 cent coins at once.
What are the chances of throwing
two tails and one head (in any order)?



1 in 8

1 in 4

1 in 6

3 in 8

25 In order to relieve famine in a country, 80 000 tonnes of food were sent.

If 15% of the food was spoilt and then 10% of what was left was damaged, how
much food was left for famine relief?

61 200 tonnes

62 100 tonnes

68 000 tonnes

60 120 tonnes

26 Here is a credit account for a household.
The amount for accommodation is
not shown.

SIVA EXPRESS CARD

MONTHLY ACCOUNT

Hardware	\$ 29.50
Books	\$ 50.00
Air travel	\$ 211.00
Accommodation	?
Total amount due	\$ 534.67

How much is the accommodation cost?

Write your answer
in the box.



YEAR 7 NUMERACY

27 If $\frac{3}{4}$ of half a number is 960, what is the number?

2880

1280

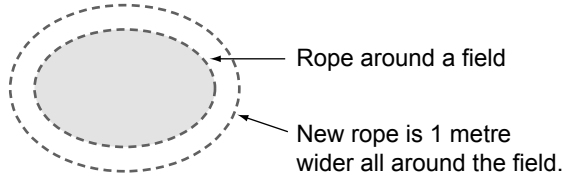
1920

2560

Fill in one circle.



28 A coach wants to set a rope around the edge of an oval. He uses around 332.84 metres of rope.



The manager of the team now says it should be 1 metre wider all round the field.

About how much more rope will be needed? (Hint: use pi or $\pi = 3.14$.)

- about 6.28 metres
- about 60.28 metres
- about 20.28 metres
- about 16.28 metres

29 $(?) \times (?) + 9 = 45$

What number goes in the symbol $(?)$ with the question mark?

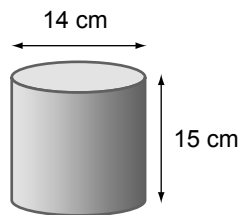
-4

-5

-6

-7

30 What is the volume of this cylinder?



660 cm³

210 cm³

735 cm³

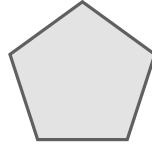
2310 cm³

YEAR 7 NUMERACY

Calculator Allowed

- 31** What is the total number of degrees in the interior angles of a any pentagon?

Fill in one circle.



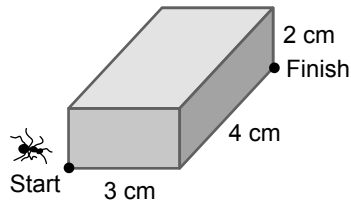
180°

360°

540°

720°

- 32** Imagine a box with an ant at one corner. The ant wants to travel to the opposite corner by the most direct path. It must travel across the top of the box at some stage. The top of the box is the light area. It cannot travel along the ground or under the box. (Hint: it does not have to travel along an edge.)



What is the shortest possible path?

7.8 cm

6.5 cm

4.9 cm

3.8 cm

END OF TEST

Excel Test Zone

Year 7 NAPLAN*-style Sample Test NUMERACY ANSWERS

Calculator Allowed

1. 20%
2. 56
3. 85
4. 13.3 hours
5. 9.6 km
6. \$34.50
7. 5
8. $103 - 29$
9. 14
10. 266 litres
11. 49 cm^2
12. 224.7
13. 84°
14. south-east
15. $3.6 \div 0.2$
16. C
17. 1000 cm^3
18. 5:30 pm
19. $\frac{3}{8}$
20. \$276
21. 24
22. 45 metres
23. 42
24. 3 in 8
25. 61 200 tonnes
26. \$244.17
27. 2560
28. about 6.28 metres
29. -6
30. 2310 cm^3
31. 540°
32. 7.8 cm