NATIONAL ASSESSMENT PROGRAM

## NUMERACY CALCULATOR ALLOWED

YEAR
7
2008

## YEAR 7 NUMERACY

1 This graph shows how students at Ascot College usually get to school.




Use the information in the graph to complete this table.

|  | Walk/cycle | Car | Bus |
| :---: | :---: | :---: | :---: |
| Boys | 30 |  | 20 |
| Girls | 10 | 50 | 30 |

2 Which number is four thousand and seventy-six?

$$
4067
$$

4760
4706
4076

3 Which picture shows a card opened to about $45^{\circ}$ ?


## YEAR 7 NUMERACY

4 This table summarises the time Mick spent walking his dog over five days.

Shade one bubble.

TIME SPENT WALKING THE DOG

| Day | Time |
| :--- | :---: |
| Monday | 45 minutes |
| Tuesday | 50 minutes |
| Wednesday | 1 hour |
| Thursday | 62 minutes |
| Friday | 43 minutes |

What was the average (mean) time for these walks?
40 minutes
52 minutes
65 minutes
260 minutes

5 Which number is exactly halfway between $1 \frac{1}{4}$ and $3 \frac{3}{4}$ ?
$1 \frac{1}{2}$
2
$2 \frac{1}{2}$
$2 \frac{3}{4}$

6 This is a triangular prism.


Which diagram is the net of a triangular prism?


## YEAR 7 NUMERACY

7 This plan shows the parking spaces in a car park.

| G1 | G2 | G3 | G4 |
| :---: | :---: | :---: | :---: |
| F1 | F2 | F3 | F4 |
| E1 | E2 | E3 | E4 |
| D1 | D2 | D3 | D4 |
| C1 | C2 | C3 | C4 |
| B1 | B2 | B3 | B4 |
| A1 | A2 | A3 | A4 |

Shade one
bubble.

Simon enters the car park at the arrow.
He takes the second turn on his left and parks in the third parking space on his right.
Which parking space is this?
A1
B1
G2
B2

8 Cassie rode her bike for 30 seconds. She rode at a speed of 6 metres per second.
How far did she ride?


9 Marie spins these two arrows. She adds the numbers
in the sections where the arrows stop and gets a total of 5 .


Marie then spins the arrows again. How many different ways can she get a total of $\mathbf{8}$ ?


## YEAR 7 NUMERACY

10 These isometric drawings of some rectangular prisms are labelled $\mathrm{A}, \mathrm{B}, \mathrm{C}$ and D .

Shade one bubble.

A

B

C
D

Which two drawings are of the same rectangular prism?
$A$ and $B$
B and C
C and A
B and D

11 A car uses an average of 8 litres of fuel for every 100 km travelled. At this rate, how many litres would the car use to travel 250 km ?

$\square$ litres

12 This shape turns around the white dot.
Shade one


What does it look like after a three-quarter turn clockwise?



## YEAR 7 NUMERACY

13 A projector is used to enlarge this map on to a wall.


What is the height of the enlarged map shown on the wall?
150 cm
180 cm
200 cm

300 cm


14 One-fifth of the length of Ruby's skipping rope is 30 cm .


How long is her rope? $\square$ cm

15 A school has 150 students.
80 of the students each have a book on loan from the library.


The fraction of students who have a book on loan from the library is closest to one-fifteenth. one-eighth. one-quarter. one-half.
(2) MCEETYA 2008

## YEAR 7 NUMERACY

16 Here is a plan of Jim's backyard.


Shade one bubble.

| KEY |
| :---: |
| $\square$ Paving |
| $\square$ Garden |

The area of the square garden in the middle is $16 \mathrm{~m}^{2}$.
What is the area of the paving in Jim's backyard?
$20 \mathrm{~m}^{2}$
$32 \mathrm{~m}^{2}$
$128 \mathrm{~m}^{2}$
$144 \mathrm{~m}^{2}$

17 Kim paid $\$ 1.50$ for cherries at this price.

How many grams of cherries did she buy?

0.25 g
25 g
150 g
250 g




18 How many hours and minutes are between $2: 27$ am and $2: 16 \mathrm{pm}$ on the same day?11 hours and 11 minutes11 hours and 49 minutes12 hours and 11 minutes
$\bigcirc$
12 hours and 49 minutes

19 Which one of these is a right-angled isosceles triangle?


$\bigcirc$

$\bigcirc$
 Not to scale

## YEAR 7 NUMERACY

20 Miki turned these stamps over and mixed them up.


He selects one at random.
What is the chance of Miki selecting a 5 c stamp?
1 out of 4
1 out of 5
2 out of 5
4 out of 6

21 A stack of cardboard sheets is 11.4 centimetres thick.
Each sheet of cardboard is 0.03 centimetres thick.


How many sheets of cardboard are in the stack? $\square$ sheets

22 This shape is made from five small equilateral triangles and one large equilateral triangle.


Each side of all the small triangles is 5 cm long.
What is the perimeter of the shape?


## YEAR 7 NUMERACY

23 Which object has exactly twice as many edges as faces?

Shade one bubble.




24 Hugo's electricity bill was $\$ 180$ last month. This month it is $\$ 135$.

What percentage decrease is this?


25 This is a map of mountains in a national park.


Anna is at the Lookout facing South. She turns $225^{\circ}$ in a clockwise direction.

Which mountain is Anna now facing?
Mt Helen Mt Blanc Mt Flinders Mt Hope

## YEAR 7 NUMERACY

26


Not to scale

What is the value of $x$ in this diagram?
50
55
60
70

27 Niki uses 15 litres of water every minute when she has a shower. She uses 100 litres of water when she has a bath.


How many litres of water does she save by having a $3 \frac{1}{2}$ minute shower instead of a bath?


28 There are 420 girls and boys at a concert.
The ratio of girls to boys at the concert is 3 to 7 .


How many girls are at the concert?
126
140 180

294


29 Sally has 60 DVDs.
This table shows the percentage of each type of DVD.

How many Comedy DVDs does Sally have?

| Type of DVD | Percentage |
| :--- | :---: |
| Drama | $45 \%$ |
| Sport | $25 \%$ |
| Comedy | $20 \%$ |
| Cartoons | $10 \%$ |

3
12
15
20
© MCEETYA 2008

## YEAR 7 NUMERACY

30 This solid triangular prism needs all its faces painted.
The area of each triangular face is $3 \mathrm{~m}^{2}$.
Write your answer in the box.


What is the total area to be painted? $\square$

311 kilometre and 40 metres is the same as
140 km
1.04 km

1004 m $\bigcirc$
1.40 m

32 Here is a map of Grit Island.
The shortest distance from Point Hook to Safety Head is 1300 m.


The shortest distance from Windy Point to Cape Scanlon is closest to
950 m
1700 m
1900 m
2250 m

END OF TEST

## YEAR 7 NUMERACY PRACTICE QUESTIONS

P1 How many dolphins are shown on this card?


3
4
5
6


P2
$6+4=$ $\square$


P3 What is the total cost of these two stamps?

$\square$

