ACKNOWLEDGEMENT

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SOURCES

Question 25 Red-back spider image courtesy of termite.com <http://www.termite.com/spiders/Red-Back-Spider.shtml>

2013 – 24, 12
2009 – 40
2012 – 39, 35

THE FOLLOWING YEAR LEVELS SHOULD SIT THIS PAPER:

AUSTRALIA: ***Year 5***
BRUNEI: ***Primary 5***
INDONESIA: ***Year 6***
MALAYSIA: ***Standard 5***
NEW ZEALAND: ***Year 6***
PACIFIC: ***Year 5***
SINGAPORE: ***Primary 4***
SOUTH AFRICA: ***Grade 5***

PAPER C

UNSW THE UNIVERSITY OF NEW SOUTH WALES
eaa EDUCATIONAL ASSESSMENT AUSTRALIA

PAPER C

INTERNATIONAL COMPETITIONS AND ASSESSMENTS FOR SCHOOLS

MATHEMATICS 2006

40 QUESTIONS
TIME ALLOWED: 45 MINUTES

STUDENT'S NAME:

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED.

Read the instructions on the **ANSWER SHEET** and fill in your **NAME**, **SCHOOL** and **OTHER INFORMATION**.
Use a 2B or B pencil.
Do **NOT** use a pen.
Rub out any mistakes completely.

You **MUST** record your answers on the **ANSWER SHEET**.

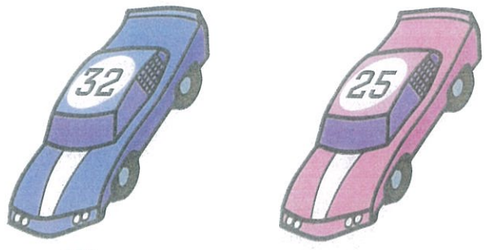
There are **40 MULTIPLE-CHOICE QUESTIONS** (1–40).
Use the information provided to choose the **BEST** answer from the four possible options.
On your **ANSWER SHEET** fill in the oval that matches your answer.

Your score will be the number of correct answers.
Marks are **NOT** deducted for incorrect answers.

You may use a ruler and spare paper.
You are **NOT** allowed to use a calculator.

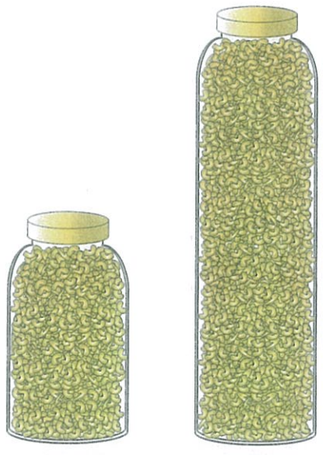
PLEASE SEE BACK COVER FOR A LIST OF THE YEAR LEVELS THAT SHOULD SIT THIS PAPER

1. Which of these cars has an odd number on its roof?



(A) (B) (C) (D)

2.



There are 600 nuts in the short jar.

About how many nuts are in the tall jar?

(A) 300
(B) 600
(C) 900
(D) 1200

3. Luke measured his height on four of his birthdays.

This table shows his results.

Birthday	Height (cm)
5th	110
6th	114
7th	122
8th	128

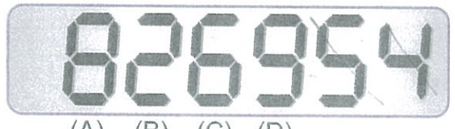
On which birthday was Luke's height closest to 120 cm?

(A) 5th (B) 6th
(C) 7th (D) 8th

4. 57 + 36 = ?

(A) 83
(B) 84
(C) 92
(D) 93

5. Which digit shows the number in the thousands column on this calculator display?



(A) (B) (C) (D)

14. Gemma created a spreadsheet to list information about her friends.

	A	B	C	D
1	Surname	First Name	Address	Email
2	King	Joe	123 Humour Rd	joek@maill.com
3	Leigh	Sarah	45 Dessert St	yum@otpus.com
4	Donald	Ronald	678 Pickle Ave	burger@otpus.com
5	Ver	Claire	9 Bright St	smarty@maill.com

Each section in the spreadsheet is called a cell.

Which one of these cells contains the first name of one of Gemma's friends?

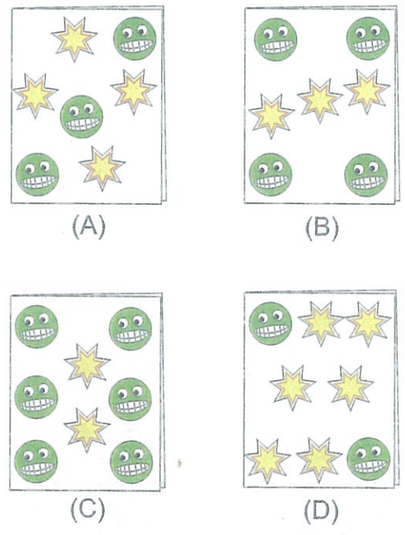
(A) A1
(B) B5
(C) C2
(D) D4

15. Cleo decorated some books with stickers.

The stickers are stars and faces.

On Cleo's maths book three-quarters of the stickers are stars.

Which picture shows Cleo's maths book?



(A) (B) (C) (D)

16. Ian wrote down an even number.

His number was between 5100 and 5500.

Which of these could be Ian's number?

(A) 5022
(B) 5223
(C) 5390
(D) 5504

17. Rainbow biscuits can be bought in small packets and large packets.

A small packet has 5 biscuits.

A large packet has five times as many biscuits as a small packet.

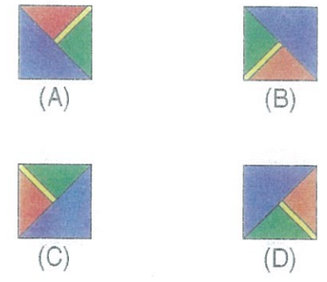
Les buys 2 large packets and 4 small packets.

How many biscuits does he buy altogether?

(A) 30
(B) 70
(C) 110
(D) 180

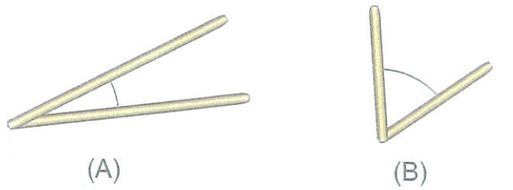
18. A card is missing from this pattern.

Which of these completes the pattern?



(A) (B) (C) (D)

19. Which of these shows the largest angle?



(A) (B)

(C) (D)

20. What is 75% of 60?

(A) 45
(B) 40
(C) 30
(D) 15

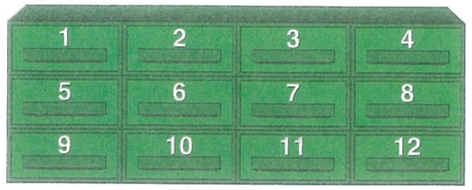
21. This table shows a size chart for jeans. The waist measurements follow a pattern.

Size	8	9	10	11	12	13	14
Waist (cm)	64	66.5	69	71.5	?	?	?

What should be the waist measurement for size 14 jeans?

(A) 81.5 cm
(B) 79 cm
(C) 76.5 cm
(D) 74 cm

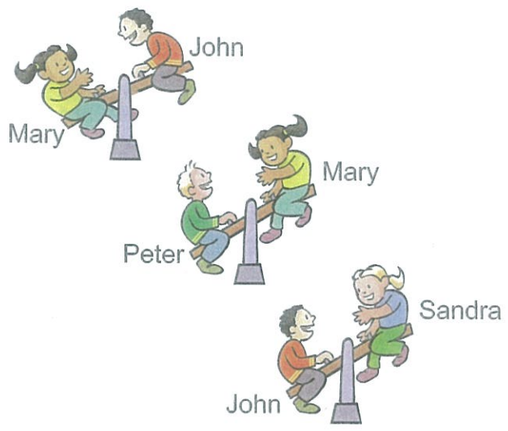
22.



How many of these letterboxes have numbers that are factors of 12?

(A) 1
(B) 3
(C) 5
(D) 6

23. Four children used a see-saw to compare how heavy they were.



What is the order of the children from heaviest to lightest?

(A) Peter, Mary, John, Sandra
(B) Peter, John, Mary, Sandra
(C) Mary, Peter, John, Sandra
(D) Mary, John, Peter, Sandra

31. $\$32.80 \times 15 =$?

(A) \$19 680 (B) \$196.80

(C) \$49 200 (D) \$492

32. When Jason started primary school he was 120 cm tall.

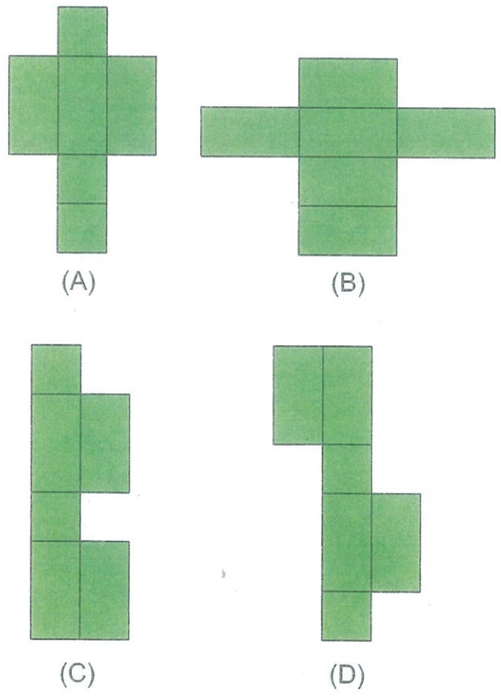
When Jason finished primary school he was 160 cm tall.

By how much has Jason's height increased?

(A) $\frac{3}{4}$ of 160 cm (B) $\frac{1}{3}$ of 120 cm

(C) $\frac{1}{4}$ of 120 cm (D) $\frac{2}{3}$ of 120 cm

33. Which of the following is a net of a rectangular prism?



(A) (B)

(C) (D)

34. Amir has five cards with numbers on them.

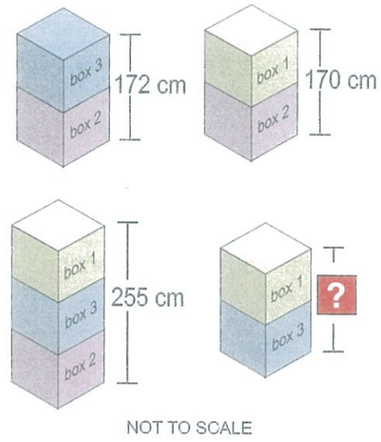
He picks two cards and adds the numbers on them to get a total.

How many **different** totals can Amir make?

(A) 5 (B) 7

(C) 10 (D) 25

35. This diagram shows the heights of different stacks of boxes.



NOT TO SCALE

What is the height of box 1 and box 3 together?

(A) 83 cm
(B) 85 cm
(C) 168 cm
(D) 171 cm

36. Ashlee sleeps from 10 pm until 6 am every night of the week.

How many minutes does Ashlee sleep in a week?

(A) 3360 (B) 1680

(C) 480 (D) 56

37. Four children ate some berries.

Ben and Nina ate half of the berries.
The other half was eaten by Ali and Sarah.

Nina ate twice as many berries as Ben.
Ali ate half as many berries as Ben.

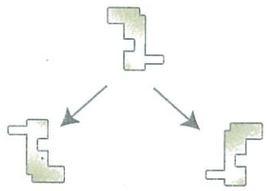
Sarah ate 10 berries.

How many berries were there to start with?

(A) 40 (B) 24

(C) 20 (D) 12

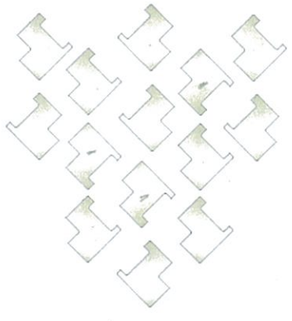
38. The picture shows how a shape can be 'turned' or 'flipped'.



turned flipped

Brian made copies of this shape.

To make this design he turned some shapes once, he flipped some shapes once and some shapes he left the same.



How many shapes were flipped?

(A) 3 (B) 5

(C) 6 (D) 7

39. Palindromic numbers are the same when read forwards or backwards. Here are some palindromic numbers.

11 505 2662

Emma wrote a 5-digit palindromic number. Its first and last digits add up to 8. The rest of its digits add up to 7.

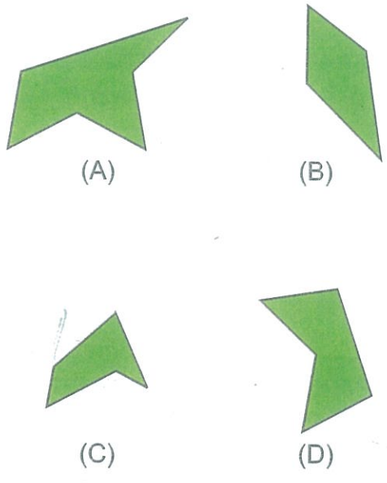
How many **different** numbers could Emma have written?

(A) 4 (B) 3

(C) 2 (D) 1

40. Sandra cuts this star into five identical pieces.

Which of these is the shape of one piece?

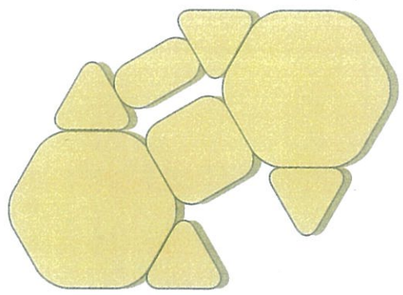


(A) (B)

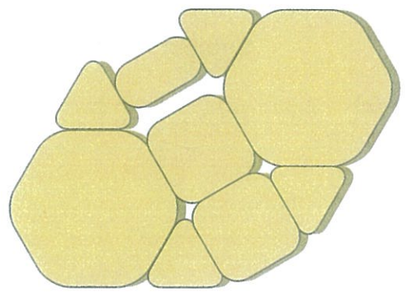
(C) (D)

END OF PAPER

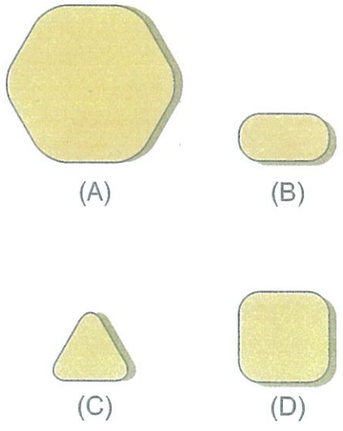
6. Mario made this shape out of blocks.



He then added another block to make this shape.



Which block did he add?



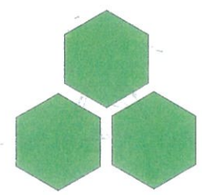
(A) (B)

(C) (D)

7. $42 \div 6 =$?

(A) 7
(B) 8
(C) 36
(D) 48

8. Jade had these three tiles.

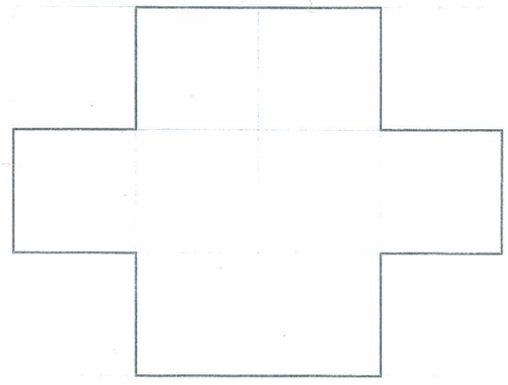


She joined the tiles together with no gaps or overlaps to make a new shape.

What is the smallest number of edges Jade's new shape could have?

(A) 6
(B) 12
(C) 16
(D) 18

9. Holly drew this shape on 2 cm grid paper.



What is the area of Holly's shape?

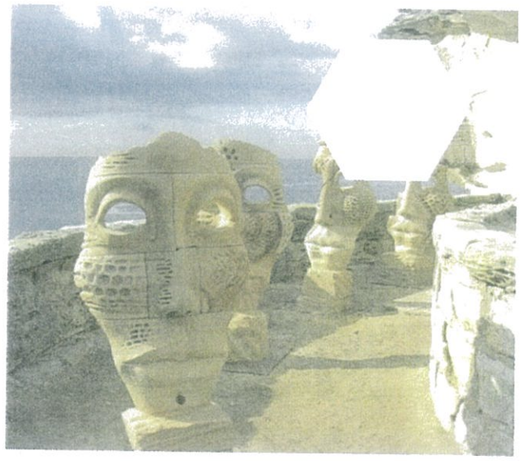
(A) 32 cm^2
(B) 28 cm^2
(C) 16 cm^2
(D) 8 cm^2

10. Here is a number line.

Which two numbers replace ? and ?

(A) 211 and 212
(B) 212 and 214
(C) 215 and 220
(D) 220 and 230

11. A piece has been cut from this picture.



Which piece will complete the picture?

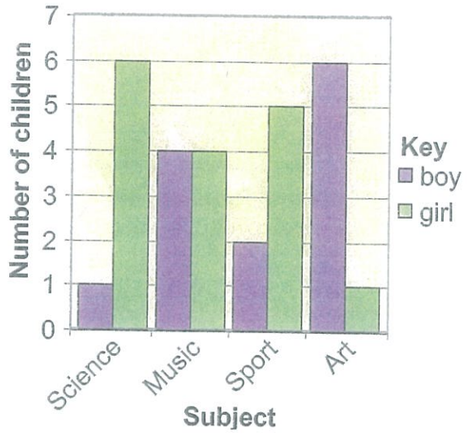
(A)

(B)

(C)

(D)

12. The girls and boys in a class were asked to name their favourite subject.



Which subject was chosen by the most children?

(A) Science
(B) Music
(C) Sport
(D) Art

13. The puppies Happy and Lucky were born within a few minutes of each other.

Happy was born at 12:03 am.
Lucky is 4 minutes younger than Happy.

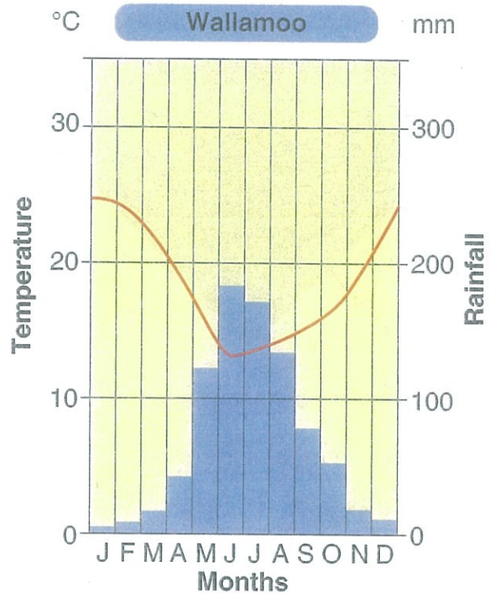
What time was Lucky born?

(A) 11:59 am (B) 11:59 pm

(C) 12:07 am (D) 12:07 pm

24. This graph shows how the rainfall and temperature vary throughout the year in Wallamoo.

Temperature is shown as a line graph and rainfall is shown as a column graph.



Which statement is true about the weather in Wallamoo?

(A) As the temperature decreases, the rainfall increases.
(B) As the temperature increases, the rainfall increases.
(C) This graph shows no relationship between rainfall and temperature.
(D) The rainfall is mostly lower than the temperature.

25. This spider has 9 egg sacks.

There are 98 eggs in each egg sack.

How many eggs are there altogether?

(A) 107
(B) 153
(C) 812
(D) 882

26. Mel recorded the results of 80 spins of a spinner.

Which of these spinners is most likely to be the one Mel used?

(A)

(B)

(C)

(D)

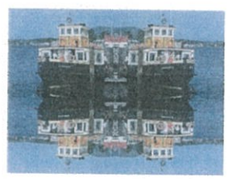
27. David used four copies of this picture to make a pattern.

David's pattern had two lines of symmetry.

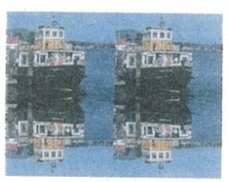
Which of these is David's pattern?

(A)

(B)

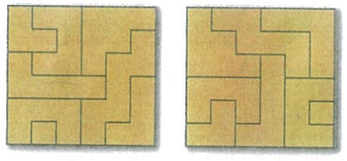


(C)



(D)

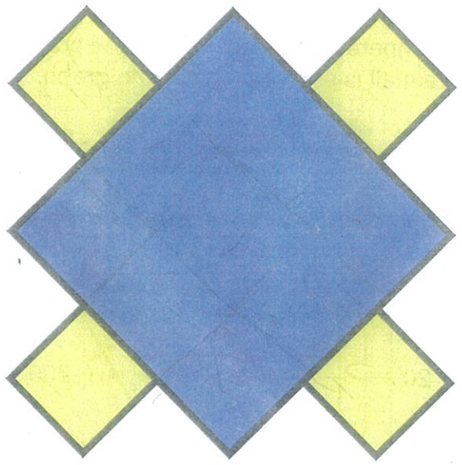
28. Jenny has two jigsaw puzzles.



Which one of these pieces can be found in one puzzle but **NOT** in the other?

(A) (B) (C) (D)

29. This shape has four small squares and one large square.

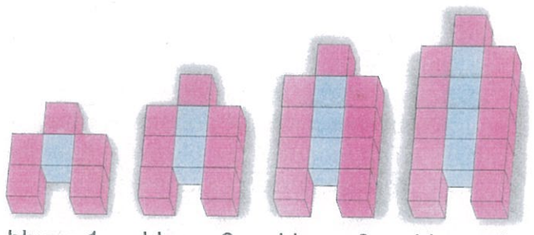


The area of each small square is 4 cm^2.

What is the area of the **whole** shape?

(A) 13 cm^2
(B) 36 cm^2
(C) 52 cm^2
(D) 160 cm^2

30. Sasha made a pattern of shapes using pink and blue blocks.



blue = 1	blue = 2	blue = 3	blue = 4
pink = 5	pink = 7	pink = 9	pink = 11

Sasha made a shape in the pattern that uses 25 pink blocks.

How many blue blocks did she use?

(A) 5
(B) 11
(C) 18
(D) 21

This page may be used for working.

$5\overline{)480}$
$3\overline{)60}$

UNSW THE UNIVERSITY OF NEW SOUTH WALES | Educational Assessment Australia

2006 Answer Keys

International Competitions & Assessments for Schools

Mathematics

Question Number	Paper A	Paper B	Paper C	Paper D	Paper E	Paper F	Papers G & H	Papers I & J
1	C	B	B	B	D	D	B	C
2	B	D	D	A	C	C	A	C
3	A	B	C	D	A	B	B	B
4	B	D	D	A	A	A	A	A
5	C	C	C	A	C	C	B	B
6	A	A	D	C	A	A	B	A
7	D	D	A	D	C	A	C	A
8	B	C	B	D	B	C	B	D
9	C	C	A	A	D	D	A	D
10	D	D	C	D	B	B	D	B
11	B	B	A	B	C	D	B	C
12	A	C	B	A	B	A	C	D
13	C	A	C	C	B	D	C	A
14	D	C	B	B	D	B	A	D
15	C	A	D	A	C	D	C	B
16	A	C	C	C	B	B	D	A
17	A	B	B	B	A	A	A	D
18	D	A	A	D	B	C	B	C
19	B	B	C	A	B	B	C	A
20	D	D	A	D	C	B	B	C
21	C	D	B	C	D	C	C	D
22	A	C	D	B	B	A	D	A
23	D	C	A	C	D	C	C	C
24	D	A	A	B	C	B	D	B
25	D	D	D	A	B	C	B	D
26	B	A	C	C	C	D	D	A
27	C	A	C	A	A	D	A	D
28	C	B	B	C	D	B	A	A
29	C	C	C	C	A	A	D	B
30	B	D	B	B	C	C	C	B
31	C	C	D	D	D	B	A	A
32	A	B	B	C	A	D	C	B
33	B	B	D	D	B	A	D	C
34	D	A	B	B	D	D	B	D
35	B	B	C	B	A	B	D	C
36	A	D	A	14	222	875	21	10
37	B	A	B	360	18	222	135	300
38	D	A	C	62	36	24	543	24
39	B	C	A	90	224	2	96	195
40	D	D	C	81	360	96	196	70 / 71

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