acara AUSTRALIAN CURRICULUM, ASSESSMENT AND REPORTING AUTHORITY

NATIONAL ASSESSMENT PROGRAM
LITERACY AND NUMERACY

NUMERACY

YEAR
3
2011

0:45 Time available for students to complete test: 45 minutes

Use 2B or HB pencil **only**

YEAR 3 **NUMERACY**

1 Which of these pictures shows a cylinder?

Shade one bubble.

⬭   ⬭   ⬭   ⬭

2 Mitch has these coins.

How much money does he have?

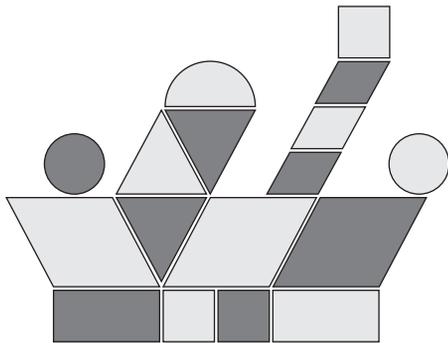$0.36 $0.46 $1.25 $1.35

⬭   ⬭   ⬭   ⬭

3 Pam drew this picture.

How many triangles did she draw?

1   2   3   6

⬭   ⬭   ⬭   ⬭

4 Ahmed showed this number on his calculator.

542

He changed it so that it became this number.

502

What did Ahmed do to change 542 to 502?

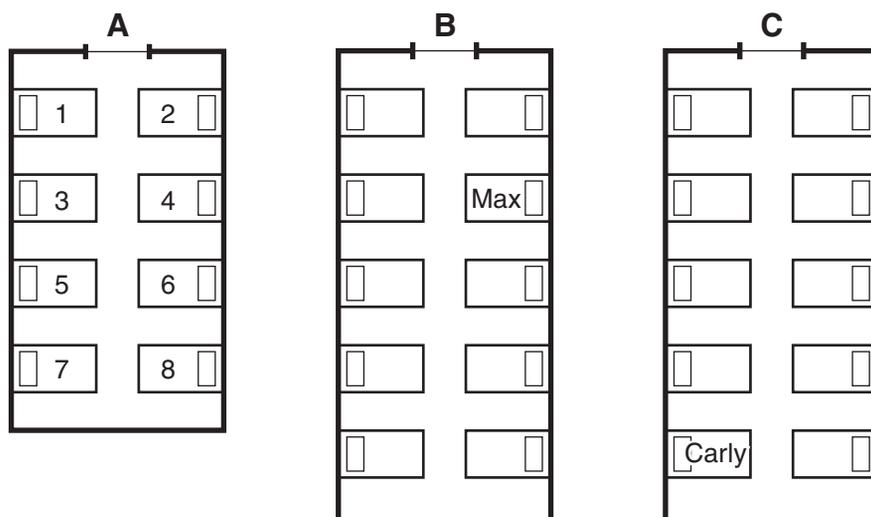- ⬭ added 4
- ⬭ subtracted 4
- ⬭ added 40
- ⬭ subtracted 40

5 This plan shows the beds in three rooms at a camp.

A

1	2
3	4
5	6
7	8

B

	Max

C

Carly	

Max sleeps in bed B4.

Which bed does Carly sleep in?

B7	B9	C7	C9
⬭	⬭	⬭	⬭

6 A family ate half of a full packet of biscuits.
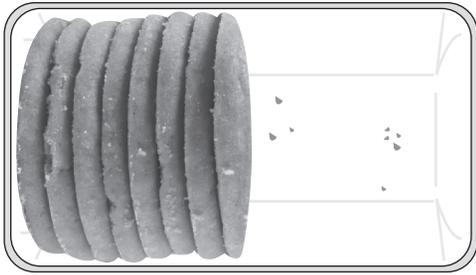
There are 8 biscuits left in the packet.

How many biscuits were in the full packet?

18	16	8	4
◯	◯	◯	◯

7

Most Popular Baby Names in Australia in 2008							
	ACT	**NSW**	**NT**	**Tas**	**Qld**	**SA**	**Vic**	**WA**
Boy	William	Jack	William	Jack	Jack	Jack	William	Jack
Girl	Olivia	Chloe	Isabella	Ella	Chloe	Emily	Mia	Ella

In which state or territory were **Jack** and **Emily** the most popular names?
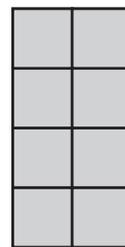
NSW	Qld	SA	WA
◯	◯	◯	◯

8 Which shape covers the largest area?

◯	◯	◯	◯
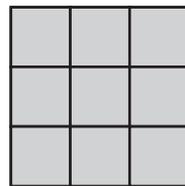
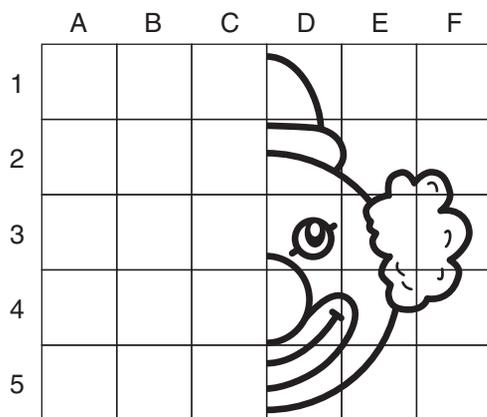**9** Molly has sorted these shapes into boxes.
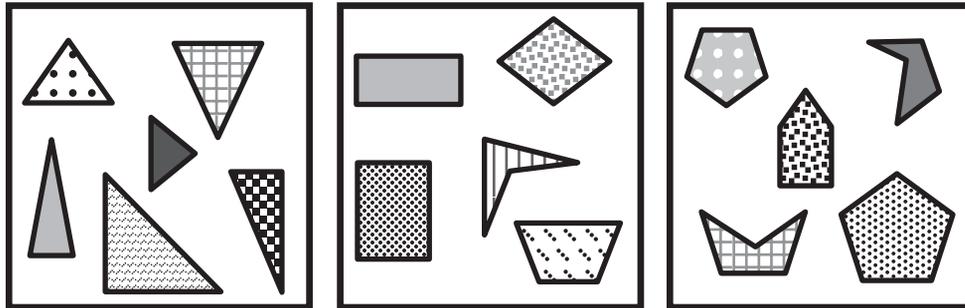
How did Molly sort her shapes?

○ by number of sides
○ by type of pattern
○ by height
○ by width

10 Julie is going to draw the other half of this picture so that the picture is symmetrical.

In which square should she draw the eye?

A3　　　　　B3　　　　　C3　　　　　D3

○　　　　　○　　　　　○　　　　　○

11 Dave put these cakes into rows of 7.

Kate put the same number of cakes into rows of 6 and had some left over.

How many cakes were left over?

5	4	3	2
⬭	⬭	⬭	⬭

12

Swimming Timetable				
11:00	**12:00**	**1:00**	**2:00**	**3:00**
Class 3 playtime	bus to pool	lunch	swimming lessons	bus back to school
Class 4 bus to pool	lunch	swimming lessons	playtime	bus back to school
Class 5 bus to pool	swimming lessons	bus back to school	lunch	playtime
Class 6 lunch	bus to pool	swimming lessons	bus back to school	playtime

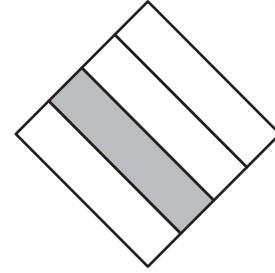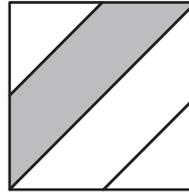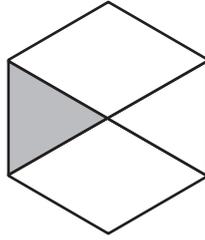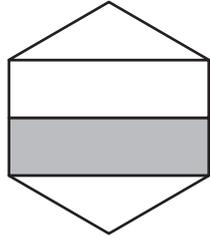Which class has swimming lessons first?

Class 3	Class 4	Class 5	Class 6
⬭	⬭	⬭	⬭

13   Which of these shapes has $\frac{1}{4}$ shaded?

Shade one bubble.

◯   ◯   ◯   ◯

14   Clare wrote a number pattern.
She added 4 to each number to get the next number.

Which is Clare's number pattern?

◯   12, 15, 18, 21, …
◯   11, 15, 19, 23, …
◯   4, 14, 24, 34, …
◯   4, 8, 16, 32, …

15   Mandy wrote this correct number sentence.

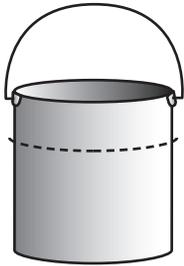27 + 13 = 40

Which of these number sentences is also correct?

◯   40 − 13 = 27
◯   40 + 27 = 13
◯   27 − 40 = 13
◯   13 + 40 = 27

16 This bucket holds 10 litres when filled to the top.
The dotted line shows how much water is in the bucket.

About how much water is in the bucket?

3 litres	5 litres	7 litres	9 litres
⬭	⬭	⬭	⬭

17

All these objects are most like

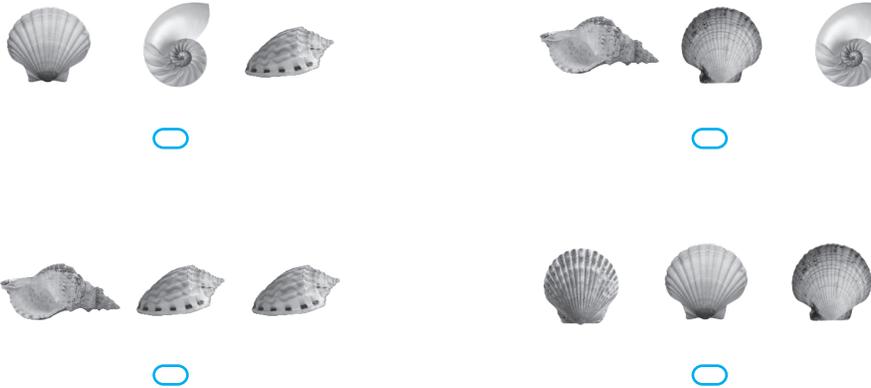| cubes.	prisms.	spheres.	pyramids.
⬭	⬭	⬭	⬭

18 Scott has three bags of shells.
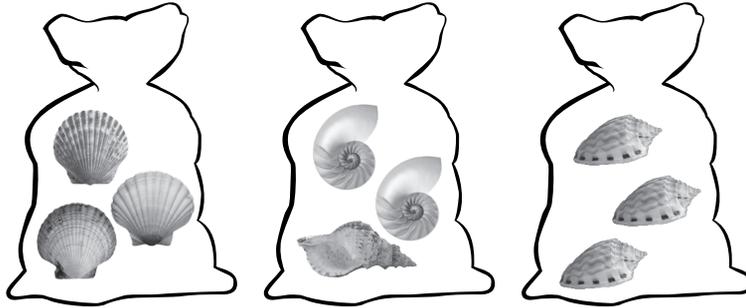
He chooses one shell from each bag.

Which of these could be the shells he chooses?

○

○

○

○

19 Emma picks two of these number cards.

1 2 3

She adds the numbers on the two cards she picked to get a total.
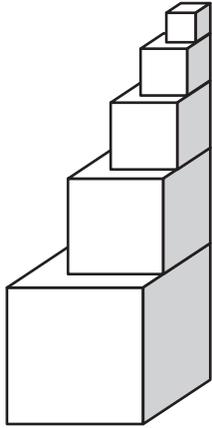
Which of these totals is **impossible** for her to get?

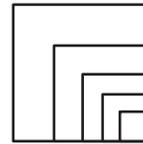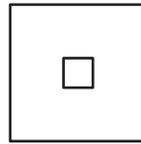2   3   4   5

○   ○   ○   ○

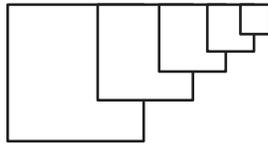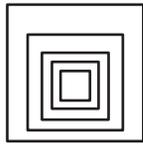**20** Craig made this tower using blocks.

Which of these shows Craig's tower from above?

○   ○   ○   ○

21 Asha asked her friends to choose one colour they liked. She made a tally sheet to record their answers but the colour names were torn off the sheet.
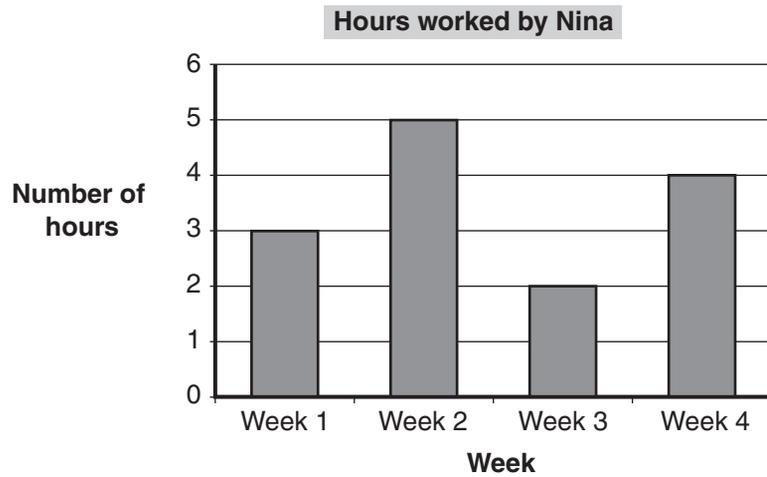
Asha remembered that:
- blue was the most liked colour
- pink was the least liked colour
- green was liked more than red.

How many of her friends liked **red**?

22

Hours worked by Nina

Nina earns $4 per hour.

How much money did she earn in Week 3?

$2	$6	$8	$12
⬭	⬭	⬭	⬭

23 Tony is paid the same amount for each car he washes. He gets paid $15 for washing 3 cars.

How many cars does he need to wash to get paid $45?

24 Write a number in the box to make this number sentence correct.

$42 - \boxed{} = 25$

25

**Fireworks start
tonight at:**

At what time do the fireworks start tonight?

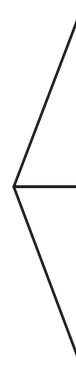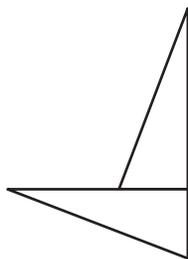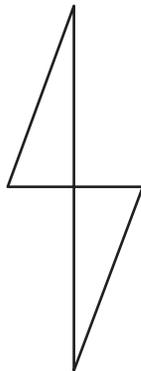| 9:08	7:09	8:45	7:45
○	○	○	○

26 Ashley draws around this tile.

She turns the tile a quarter turn.
She draws around the tile in its new position.

Which of these could show both of the shapes that Ashley drew?

○	○	○	○

YEAR 3 **NUMERACY**

27 Dean thought of a number.
He doubled it and then added 6.
The answer was 20.

What number did Dean first think of?

28

Which one of these is the net of a cube?
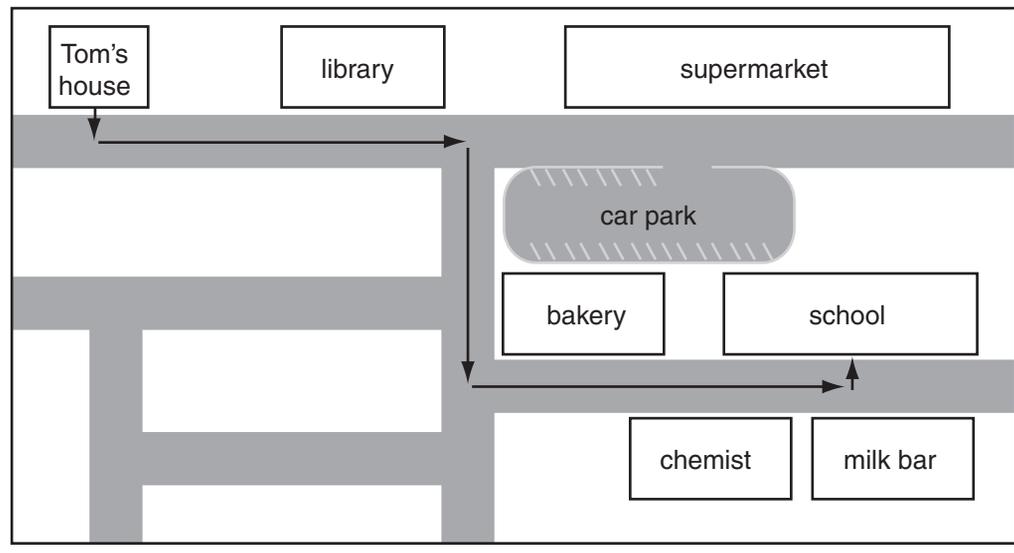
○   ○   ○   ○

29 Tom rode his bike from his house to school.

| Tom's house | library | supermarket |

car park

bakery | school

chemist | milk bar

What was the first building he passed on his **right**?

library   bakery   chemist   milk bar

○   ○   ○   ○

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30 In 4 years time Jodie will be 20 years old.
Steve will then be half Jodie's age.

Shade one bubble.

How old is Steve **now**?

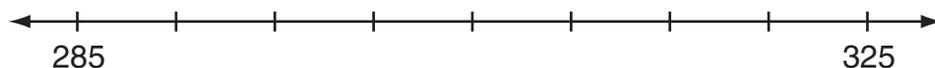| 6	8	10	16
◯	◯	◯	◯

31 Tim is playing a computer game.
To win at a level, he needs twice the points he had at the level before.

Write your answer in the box.

Level	Points to win
Level 1	5
Level 2	10
Level 3	20
Level 4	40

How many points will Tim need to win at Level 7?

32

285   325

What number is exactly halfway between 285 and 325?

33 A movie ticket for one adult costs $12.
A movie ticket for one child is three-quarters of the cost of an adult ticket.

What is the cost of tickets for **two** children?

$

34

Banana Muffins (makes 12)
1 cup self-raising flour
100 g butter
$\frac{1}{2}$ cup sugar
2 eggs
2 bananas

Caitlin wants to make exactly 30 muffins.

How many bananas does she need?

35 Trent has $5.60 in coins.
He has an equal number of 50 c, 20 c and 10 c coins, and no other coins.

How many 50 c coins does he have?
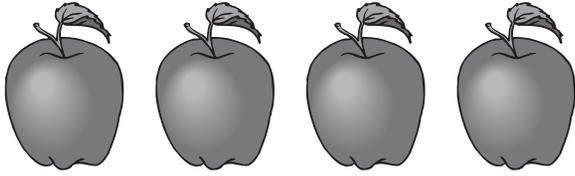
STOP – END OF TEST

PRACTICE QUESTIONS

P1 How many apples are shown?

Shade one bubble.

    3   4   5   6

    ◯   ◯   ◯   ◯

P2 Nick had three dollars.
He spent one dollar.

Write your answer in the box.

How much money does he have left?

$ ☐

P3 Write a number in the box to make this number sentence correct.

6 + 5 = ☐