

NUMERACY CALCULATOR ALLOWED



YEAR

7

Example test



PART A

50 min

Time available for students to complete Part A: 50 minutes



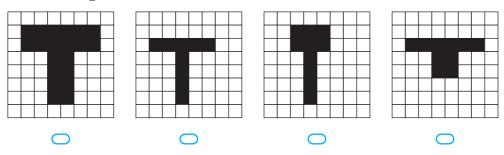


1 Trevor drew this shape on a grid.



He then doubled the height and width of the shape.

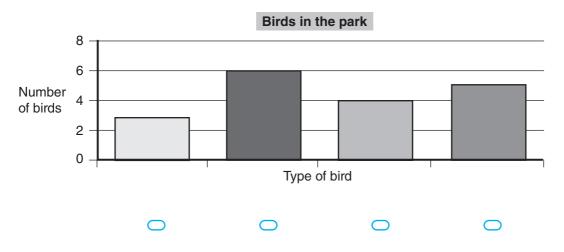
Which drawing shows this?



2 For 3 days, Bella made a tally of the birds she saw in a park. This table shows her results.

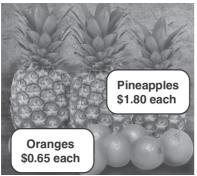
Type of bird	Monday	Tuesday	Wednesday
Kookaburra	11		I
Magpie	I	П	I
Galah	111	11	
Rosella		1111	11

Which column on the graph below shows the total number of Galahs?



3	In 1894, women wei	e granted the righ	nt to vote in Sou	th Australia.	
	By 2009, women in S	South Australia w	ill have been abl	le to vote for	
	113 years.	115 years.	125 years.	215 years.	
	0		0	0	
4	Another way of wri	ting 6² is			
	6 × 2	6 × 6	6+6	$2 \times 2 \times 2 \times 2 \times 2 \times 2$	
	0	0		0	
5	Two places are 4.7 c On the map 1 cm re	presents 5 km.			
	What is the actual d		-	45.1	
	1.06 km	9.4 km	23.5 km	47 km	
		<u> </u>			
6	Emma has \$1.25 in o	coins.			
	What is the least nu	mber of coins she	can have?		
	2	3	4	5	
	0	0		0	

7



Alan buys 5 oranges and one pineapple from this market stall.

How much does Alan pay for the fruit altogether? \$.



8	3.25, 3.0, 2.75, 2. What is the rule to increase by 0. increase by 0. decrease by 0. decrease by	o continue this decir 0.5 0.25 0.5	mal number patter	rn?	
9	These isometric di	cawings of some rec	tangular prisms a	re labelled A, B, C and D.	
	Α	В	С	D	
	Which two drawing	ngs are of the same	rectangular prism	?	
	A and B	B and C	C and A	B and D	
		0			
10			-	,	
11	Each long side has	ldock has a perimet s a length of 15 met n of each short side? metres	res.		



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 8?

1

2

3

4

13 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	В3		B4	
A1	A2	A3		A4	

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

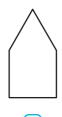
0

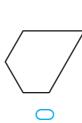


14 Luke drew a shape with:

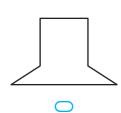
- exactly 2 pairs of parallel sides, and
- exactly 2 acute angles.

Which drawing could be Luke's?

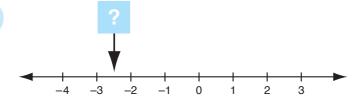








15



The arrow points to a position on the number line.

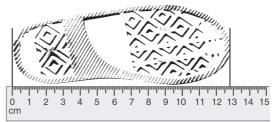
What number is at this position?

16 Trudie

Trudie measured her footprint.

She then measured her shoe print.





How much longer is her shoe than her foot?

0.08 cm

 $0.8\,\mathrm{mm}$

 $8\,\mathrm{mm}$

8 cm



17 The DVD player shows the time of day as 01:43. The movie still has 53 minutes to run. What time will the DVD player show at the end of the movie? 18 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 62 500 19 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? 15 cm 45 cm 50 cm 85 cm



20 Helen has 24 red apples and 12 green apples.

What fraction of the apples are green?

 $\frac{1}{2}$

 $\frac{1}{3}$

 $\frac{1}{4}$

 $\frac{1}{12}$

Last year 3684 people went to a music festival.

The number of people who went to the festival this year was $\frac{2}{3}$ of last year's figure.

How many people went to the festival this year?

1228

2442

2456

5526

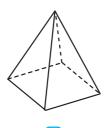
22 This table shows the results of a survey on mobile phone bills.

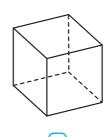
	Mo	onthly bill	
Age	\$20 or less	Greater than \$20 and less than \$30	\$30 or more
Under 20	12	28	18
20 – 40	8	14	13
Over 40	15	17	12

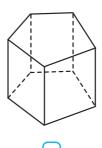
In total, how many people under the age of 20 had a monthly bill of **less than \$30**?

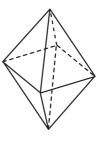


Which object has exactly twice as many edges as faces?









24 Dustin collects football cards.

He sells some of his cards. The prices are listed here.

\$3, \$5, \$5, \$8, \$8, \$10, \$10, \$10, \$40

What is their mean (average) price?

\$8

\$9

\$10

\$11

25 Sally has 60 DVDs.
This table shows the percentage

This table shows the percentage of each type of DVD.

Type of DVD	Percentage
Drama	45%
Sport	25%
Comedy	20%
Cartoons	10%

How many Comedy DVDs does Sally have?

3

12

15

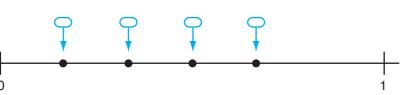
20

26 Ki

Kim throws a standard 6-sided die.

Which point on the number line best shows the chance of Kim throwing a 2?





27

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

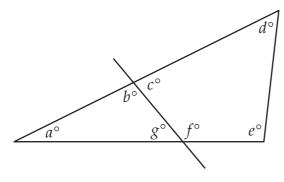
\$378

\$405

28

A triangle is divided into 2 parts by a straight line.

The angles are then labelled.



Which statement is true about the sum of angles?

a + b + c = 180

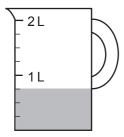
c + d + e + f = 360

a + b + g = 360

a + g + f + e = 180

29

This jug has some milk in it.



If Eve adds an extra 500 mL of milk to the jug, how many millilitres (mL) of milk will then be in the jug?

mL



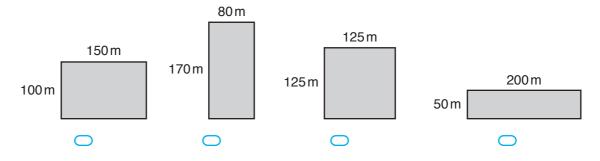
Niki uses 15 litres of water every minute when she has a shower. She uses 100 litres of water when she has a bath.

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

litres

31 A farm has 4 paddocks.

Which paddock has the largest area?



An electrician calculates the price of a job using a service fee and an amount per hour.

This table shows some of the job prices.

Hours	2	4	5	6
Job price	\$160	\$252	\$298	\$344

How are the job prices calculated?

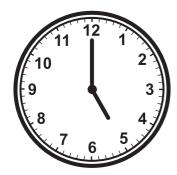
- \$80 service fee + \$40 per hour
- \$80 service fee + \$80 per hour
- \$68 service fee + \$92 per hour
- \$68 service fee + \$46 per hour

A rule to calculate the amount of medicine (mL) a child needs is:

Child amount = $(Adult \ amount \times Age \ of \ child) \div (Age \ of \ child + 12)$ Use this rule to complete the table.

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

34 This clock shows 5 o'clock.



What is the size of the smaller angle between the minute and hour hands?

degrees

35 Jamie surveyed all the Year 7 students at his school about their favourite sport.

Favourite sport	Number of students
Basketball	85
Cricket	35
Football	55
Netball	75

Which sport did 3 out of every 10 Year 7 students choose as their favourite?

Basketball Cricket Football Netball

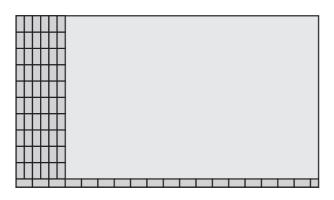


36	Which of these nu	ımbers is a multiple	of both 7 and 11?		
	711	777	7117	7777	
37	A shoe shop has a	sale.			
		É			
	Was \$95		s \$90		
	Sale price is 20% of	f Sale price	e is 25% off		
	What is the differ	ence in the sale price	es of these two pai	irs of shoes?	
	\$				
	Ψ				
38	Ben has 2 identica	ıl pizzas. . equally into 4 large	elicae		
	-	other pizza equally in			
		hs 32 grams more th			
	What is the mass	of one whole pizza?			
		grams			



Dan has started to cover a rectangular floor with tiles. The tiles are twice as long as they are wide.

The floor is $10\frac{1}{2}$ tiles wide and $18\frac{1}{2}$ tiles long.



Using this pattern, what is the total number of tiles Dan will use to cover the floor?

40 A plane was flying due north. It made these three course changes:

- 1. 15° right turn
- 2. 50° left turn
- 3. a final right turn until it was heading due east.

How many degrees did it turn the third time?

degrees

STOP - END OF PART A

Do not turn this page.

Do not write on this page. Do not turn this page.

Do not write on this page.

Do not turn this page.

Do not write on this page.	
Do not turn this page.	



NUMERACY NON-CALCULATOR



YEAR
7
Example test

PART B

10 min

Time available for students to complete Part B: 10 minutes



YEAR 7 NUMERACY (NON-CALCULATOR)



1 Which one of these has the same value as 12×3 ?

$$10 + 3 + 2$$

$$10 \times 3 + 2$$

$$10 \times 3 + 3$$

$$10 \times 3 + 6$$

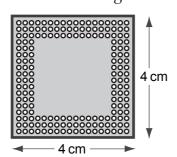
2 The table shows the times of 3 of the first 4 swimmers in a race.

1st place	25.38 seconds		
2nd place	25.83 seconds		
3rd place	?		

The time of the swimmer in 3rd place could be

- 25.78 seconds.
- 25.91 seconds.
- 26.31 seconds.
- 26.92 seconds.

A computer chip has dimensions 8 mm × 8 mm. A scale drawing is shown below.



What scale is used in the drawing?

- 1 cm represents 5 mm
- 1 cm represents 2 mm
- 2 cm represents 1 mm
- 5 cm represents 1 mm

YEAR 7 NUMERACY (NON-CALCULATOR)



4	Jenny is exactly Her brother Ken	3 years old. is exactly 17 months	old.					
	How many months older than Ken is Jenny?							
	13	14	19	21				
	0	0	0	0				
5	Bruce is cooking	r dinner						
	Bruce is cooking dinner. The table shows the cooking times for his dinner.							
		Cooking time						
	Chicken	1 hour 40 minutes						
	Potatoes	20 minutes						
	Peas	10 minutes						
	He wants everyt	king the chicken at 5:1 thing to finish cooking ould Bruce start cooki 6:30 pm	g at the same time	6:50 pm				
6	What is \$10 as a percentage of \$40?							
	4%	10%	25%	40%				
		0	0	0				
7	37.9 × 10 =							
	3790	3709	37.90	379				
		0	0	0				
8	8 What is the answer to $6.6 \div 0.3$?							
	0.022	0.22	2.2	22				
	0	0	0	0				
	STOP – END OF TEST							