# Year 7 Prepare for NAPLAN



## Instructions

There are two tests available for each level – TEST 1 and TEST 2. TEST 1 is a pre-test, and TEST 2 can be used as a post-test.

- 1. Complete questions in TEST 1
- 2. Have students mark their own test using the answer sheet provided



- For each incorrect answer in TEST 1, complete the suggested 'Mangahigh activity'
- 4. Login to Mangahigh and use the 'Browse all activities' option, and type in the title of the Mangahigh activity. Complete the activity and earn a minimum of Bronze medal.
- 5. Attempt TEST 2 when students have completed all relevant suggested activities.

## Year 7 TEST 1



YEAR 7 NUMERACY - TEST 1

1	A number is missing on this number line.						
	9.050 9.052	<b>I</b> 9.054	<b>†</b>	l 9.058 9.0	<b>→</b> 060		
	Which one	of the following	is the missing n	umber?			
	9.056	9.058	9.062	9.900			
			Mangahigh act	ivity: <b>Order decimals</b>			
2	Two sca	le models of The compar	Statue of Liberty e	are			
	Model A	has a scale of 1: a scale of 2	400 and model B 2 : 300	has			
		Which model	is taller?				
	Model A	Mode	IB E	Both are the ame height			
			]				
	Manga	ahigh activity: <b>Use ra</b>	tio and proportion (dr	awings and models)			
3		25 c					
	I spend 25 c. I pay with this coin. How much <u>change</u> do I get?						
	85 c	75 c	65 c	25 c			
			Mangahigh activit	y: Work with money			



7		Which of the f	ollowing is $\frac{2}{5}$ x	650?	
	420	390	130	260	
	Ма	ngahigh activity: <b>Fino</b>	l a fraction of an a	mount: standard examples Multiply with fractions	
8	A car used to cos	t \$5000, but the o How much is t	dealership inc he car worth r	reased the price by 10% now?	6.
	\$6000	\$6500	\$5500	\$4500	
		Mang	ahigh activity: <b>Fin</b> Calc	d percentages – calculator ulate percentage discounts	
9	The rectangle bel	ow shows the sh	ape and meas	surements of a garden.	
		5 m		5 m	
			10 m		
		NO	T TO SCALE		c
	Which one of the fol	lowing shows the the <u>c</u>	e distance in r jarden?	netres around the edge	ot
	10m	15m	5m	30m	
			Mangahigh ac	tivity: <b>Solve word problems</b> Use parentheses	

10	The <i>n</i> th term of a sequence is $7n + 3$ .						
	Noah works out the first three terms of the sequence.						
	Which <b>o</b>	<b>ne</b> of the following	shows the first thr	ree terms?			
	10, 14, 21	71, 72, 73	21, 24, 27	10, 17, 24			
		Mangahigh activity	Use nth term to genera: Describe patte	te linear sequences rns and linear rules			
11	Which one of the	following is the sm	allest prime numb	er greater than 11?			
	12	17	13	15			
		Ма	ngahigh activity: <b>Learn a</b>	bout prime factors			
12		A 250g bar of cho	colate costs \$1.60				
	Whie	ch calculation wor	ks out the cost per	kg?			
	4 x \$1.60	\$1.60 ÷ 2.5	0.25 x \$1.60	\$1.60 ÷ 4			
			Mangahigh activity: So Find the	olve word problems area of a rectangle			

13		Perpendicular l	ines cross at 90°	
	Whicl	h line is perpendicu	<sup>P</sup> 90° 70° Ilar to the horizonta	al line?
	А	В	С	D
	Recognise	Mangahigh activity: F Measure angles; and calculate correspo	Recognise perpendicular Recognise and calculat nding angles; Understar	r and parallel lines; te opposite angles; nd alternate angles
14		A teacher has 3	3m of sticky tape.	
		She gives away	25cm to a child.	
		How much tape of	does she have left?	
	270cm	250cm	275cm	285cm
			Mangahigh activity: <b>Cal</b> <b>Use and co</b>	culate with length; onvert metric units
15	HOU		HOURS MINU	ITES PM
	w	ent out	came b	back
		How long die	d I go out for?	
	45 minutes	35 minutes	10 minutes	50 minutes
	Record and con	Mangahigh ac npare seconds, minutes	tivity: Use the digital clo and hours; Convert bet	ock; Measure time; ween units of time

16	A jug has 675mL of water.						
	150mL is poured into a glass.						
		How much	is left in the jug?				
	550mL	575mL	525mL	425mL			
		Convert units	Mangahigh activity: <b>Cal</b> <b>5 of capacity; Convert n</b>	culate with capacity; netric units of weight			
17	A man wal shown by t	ks from square X to the arrows. Which of	square Y. The path that these describes the pa	he takes is ath taken by			
		the	man?				
		<b>x</b>					
			ŤY				
	DOWN 3 squares RIGHT 2 squares	RIGHT DOWN	2 squares 3 squares	RIGHT 2 squares DOWN 2 squares			
		Mangahigh	activity: <b>Learn about po</b> Use	osition and direction; compass directions			
18							
	Which of the foll	owing calculatic	ons gives the same	e result as 4 x 3 x 6?			
	3 x 6 x 5	2 x 3 x 7	6 x 4 x 3	4 x 5 x 7			
		Mangahi	gh activity: <b>Relate addi</b> t	tion to multiplication			

19	The a	The angle between the red line and blue line is 180°					
		/					
			60°				
		180°					
	What is th	ne angle between	the black line and	the blue line?			
	140°	100°	120°	80°			
		Mangahi	igh activity: <b>Calculate a</b> Ide	ngles around a point entify types of angle			
20							
	In a box there	are 10 cards with wit	numbers, 5 cards h letters.	with pictures and 6			
	Т	he total number o	f cards in the box i	S			
	21	20	22	19			
		Mangahi	ah activity: Understand	likelihood of events			
	Design o	lata collection sheets,	List possible outcomes	from a single event			
21	The temperatu	re in Mexico is rec	corded for five con	secutive days.			
	The temperate	The temperatures were as follows: $25^{\circ}C$ , $30^{\circ}C$ , $35^{\circ}C$ , $30^{\circ}C$ , $40^{\circ}C$ .					
		What is the mea	an temperature?				
	<b>32</b> ° <i>C</i>	31 ° <i>C</i>	<b>34</b> ° <i>C</i>	33 ° <i>C</i>			
			Mangahigh act	tivity: Find the mean Interpret raw data			

22	3 x 9 is the same as 3 x 5 + 3 x						
	Which one of these answers is correct?						
	3	6	5	4			
	Mar <b>Relate</b>	ngahigh activity: <b>Recog</b> addition to multiplicat	nise place value: hundre tion, Divide, Divide by 5,	ds, tens and units, Divide by decimals			
23		What fracti	on is not shaded?				
	$\frac{3}{8}$	$\frac{3}{5}$	$\frac{8}{5}$	$\frac{5}{8}$			
			Mangahigh acti <b>Identify e</b> d	vity: Use fractions, quivalent fractions			
24	Which one of the result w	e following shows hen you round the	s two numbers that em to two decimal p	give the same places?			
	2.167 and 9.309 and 2.174 9.301		8.935 and 8.934	6.373 and 6.362			
	Mangah	igh activity: <b>Round de</b> o	cimals that have up to th	ree decimal places			

		YEAR 7 NUME	ERACY – TEST 1	
25		23 000 mn	ו = m	
	23m	2300m	2.3m	230m
	Mangał	nigh activity: <b>Multiply an</b>	d divide whole numbers	by 10, 100 and 1000
26	The graph s (x	shows the cost (y a axis). What is the	ixis) of buying a nu cost of buying 6 roo	mber of roof tiles of tiles?
		у 20 15 10		
		5 0 1 2	3 4 5 6 x	
	\$10	\$12	\$5	\$15
		Mangahigh activity: P	lot and interpret real-life	e straight line graphs
27				
	Etha	an shares \$60 with	his friend in the rat	tio 1 : 5.
	Which one	of the following sh	ows the amount th	at Ethan gets?
	\$60	\$30	\$10	\$50
		M	angahigh activity: <b>Solve</b>	problems with ratios



## Year 7 TEST 2

#### Instructions:

- Once students have completed all Mangahigh activities marked as incorrect in TEST 1, they are now ready to attempt the post-test (TEST 2)
- Questions in TEST 2 is numbered P1, P2, P3 etc.







P7	4500 students attend Manga High School.						
	Last Friday, $\frac{1}{90}$ of the students were absent.						
WI	nich <b>one</b> of the foll	owing shows how	many students	s were <b>present</b> last Friday?			
	4430	4450	4410	4440			
P8	Jo	hn checks the n	noney in his v	vallet.			
	He wants to buy a table that used to cost \$140, but has now been reduced by 25%						
	He has exactly	He do	besn't have	He has more than			
P9	Mrs W	/arren is going sho	opping, and has	\$ \$40.00.			
	She	buys shoes and b	ooks costing \$	33.80.			
	Which ones of	of the following sh	iows how mucł	n money is left?			
	\$6.20	\$6.30	\$5.20	\$7.20			

P10	The <i>n</i> th term of a sequence is $4n - 2$ .						
	William works out the first three terms of the sequence.						
	Which <b>o</b> i	<b>ne</b> of the following	shows the first th	ree terms?			
	40 41 42	2 6 10	1010	1 2 2			
	40, 41, 42			4, 3, 2			
P11			<i>f</i>				
		Emily thinks o	of a number.				
	She says, 'l	t is the greatest p	rime number less	than 40.'			
	Which <b>one</b>	of the following n	umbers is she thir	king of?			
	.31	35	39	37			
D12							
ΓIΖ		1 litres is the sa	me as 1000mL.				
		500	ml \$1.55				
	W	hat is the price of	this drink per litre	?			
	\$3.10	\$3.25	\$4.65	\$3.05			

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D14						
PI4						
	A teacher has 4m of string.					
		She gives away 6	55cm to a child.			
	Н	low much string d	oes she have left?			
	340cm	345cm	330cm	335cm		
P15						
	HOURS		HOURS			
	Lesso	on starts	Lesson ends			
	Peter's maths less	son lasts 1 hour a	nd 20 minutes. Wha	nt time does it end?		
	3:25pm 3:15pm		2:35pm	2:45pm		

P16	A jug has 775mL of water.						
	325mL is poured into a glass.						
				I	How	/ mเ	uch is left in the jug?
	550mL			4	75n	nL	450mL 525mL
						כ	
P17	A cross is placed in the centre of square D3. It is then moved left 2 squares and down 2 squares. Mark the new position of S the cross.						
	5		11 8		S	Т	
	4		U			0	
	3				x		
	2	2	Ŧ				
	-	Α	B	с	V D	Е	
P18							
	Which of	the f	follo	win	g ca	alcu	lations gives the same result as 7 x 3 x 6?
	3 x 6 x 7 6 x 3 x 5		< 5	2 x 7 x 5 9 x 6 x 8			

P19	170°				
	What is the missing angle?				
	180°	190°	90°	80°	
P20		$\bigcirc$	<b>\$</b>		
	I I I I I I I I I I I I I I I I I I I				
	A dice is equally likely to land on one of the six numbers from 1 to 6.				
	What is the probability that it lands on a number 5?				
	<u>1</u>	1	$\frac{1}{\pi}$	5	
	3	6	5	6	
P21					
_	The total number of books owned by a class of students is 420.				
	The mean number of books that each student owns is 20.				
	How many students are in the class?				
	21	440	8400	20	

P22	$3 \times 6$ is the same as $3 \times 4 + 3 \times $					
	Which one of these answers is correct?					
	4	2	9	6		
P23	What fraction of the circle is not shaded?					
	$\frac{7}{9}$	2 7	$\frac{2}{9}$	9 7		
P24	Which one of the following shows two numbers that give the same result when you round them to two decimals places?					
	0.116 and 0.114	6.263 and 6.267	4.896 and 4.903	8.539 and 8.545		



P2	28 The perimeter of a regular pentagon is 40cm						
		FINC	a the length of o	ne side.			
	5cm	8cm	16cr	n 1	0cm		
				)			
P2	29						
	The hair colour of 10 students was recorded as follows: Blonde, brown, red, brown, black, brown, blonde, red, blonde, blonde						
	What is the missing number in the table, which shows the number of						
	brown-haired students?						
	Hair colour	Blonde	Brown	Black	Red		
	Number of students	4		I	2		
	4	2	3		10		
P3	30						
	This shape has one line of symmetry. Find it.						
			$\checkmark$				
	A 	B	S /	C			
		ļ	(				
			\ ¬				

## Year 7 ANSWER SHEET



### **Answer sheet**

TEST 1	TEST 2	
1. 9.056	P1. 3.314 and 3.317	
2. Model A	P2. 6	
3. 75c	P3. \$3.40	
4. 434	P4. 353	
5. ÷ 3	P5. 21	
67 ° <i>C</i>	P6. 4 - 5	
7. 260	P7. 4450	
8. 4500	P8. He has more than enough money	
9. 30m	P9. \$6.20	
10. 10, 17, 24	P10. 2, 6, 10	
11. 13	P11. 37	
12. 4 x \$1.60	P12. \$3.10	
13. C	P13. 3cm	
14. 275cm	P14. 335cm	
15. 50 minutes	P15. 3:15pm	
16. 525mL	P16. 450mL	
17. RIGHT 2 squares DOWN 3 squares	Р17. Т	
18. 6 x 4 x 3	P18. 3 x 6 x 7	
19. 120°	P19. 190°	
20. 20	P20. $\frac{1}{6}$	
21. 32°C	P21. 21	
22. 4	P22. 2	
$23.\frac{5}{8}$	P23. <sup>7</sup> / <sub>9</sub>	
24. 2.167 and 2.174	P24. 4.896 and 4.903	
25. 23m	P25. 83000 ÷ one million	
26. \$15	P26. C	
27. \$10	P27. \$7	
28. 16cm	P28. Turkey	
29. blue	P29. 3	
30. A	P30. A	