

MATHEMATICS TEST 18

TIME-75 MINUTES

SECTION 1

Each question is worth 1 mark. Answer ALL questions. Show ALL working in the Working Column.

No.	Items	Working Column	Mark
1.	Write three hundred and nine thousand and twenty five in numerals.	HTh TTh Th H T O 3 0 9 9 2 5	
	Answer		
2.	Approximate 7 630 to the nearest HUNDRED.	7630 ≅ 7600	
	Answer	7600	
3.	Write the value of the underlined digit in the number $4\underline{6}8$ 209.	60 000	
	Answer		
4.	Write the number to correctly complete the expanded notation.		
	$346479 = (3 x 100 000) + (4 x 10 000) + (6 x _) + (4 x 100) + (7 x 10) + (9 x1)$	1 000	
	Answer		

5.	Order these fractions from the SMALLEST to the LARGEST. 0.63 ; 0.36 ; 0.06 Answer	0.06 0.36 0.63	
6.	Complete the following statement: If $\frac{N}{7} = \frac{24}{28}$, then N = Answer	$N=24 \div 4$ $N=6$	
7.	What is the remainder when 452 is divided by 3? Answer	452 ÷ 3 = 150 r.2 Remainder = 2	
8.	$6 \div \frac{2}{3} =$ Answer	$\frac{\frac{6}{1} \times \frac{3}{2}}{= 9}$	
9.	Rachael ran 2.5 km. Jerome ran 1.35 km MORE than Rachael. What distance in kilometres did Jerome run? Answerkm	Jerome = 2.5 + 1.35 = 3.85km	
10.	Jodi left home at 9:20a.m and reached the cinema 1hr and 30minutes later. At what time did Jodi arrive at the cinema? Answer	9 : 2 0 + <u>1 : 3 0</u> <u>10:5 0</u> a.m	

11.	Mr. Jason bought a watch for \$295.00 and sold it for \$425.00. Calculate his profit.	Profit = \$425 - \$295 = \$130	
12.	$5\frac{1}{2}m$ $6\frac{2}{5}m$ What is the TOTAL length of the two pieces of rods shown? Answer	Total length = $5\frac{1}{2} + 6\frac{2}{5}$ = $11\frac{5+4}{10}$ = $11\frac{9}{10}$	
13.	Write the time shown in the clock above in digital notation.	2:40	
14.	Calculate the AREA of a square of side 14cm. Answer	Area of square = S x S = 14 x 14 = 196cm²	



19.	The bar graph ochro plants.	h below shows the height of	15 + 5 = 21	
20.	The pictograp played by ch	ph shows the favourite sports lldren in a class.	$16 \bigcirc = 32$ $1 = \bigcirc 32 \div 16$	
	Sport	No. of Children	🕐 – 2 children	
	Football			
	Cricket			
	Volleyball			
	If there are 3 number does	2 children in this class, what each () represent?		

SECTION 2

No.	Items	Working Column	Mark
21.	Subtract 4632 from 6975	2343	
	Answer (2)		
22.	If $\frac{2}{3}$ of Marlon's money is \$60.00, calculate the total amount of money Marlon has.	$\frac{2}{3} = \$60$ 1 = $\frac{60}{1} \ge x \frac{3}{2}$ = \\$90	
	Answer (2)		
23.	Multiply $4\frac{1}{2}$ by $3\frac{1}{3}$ Answer (2)	$4\frac{1}{2} \times 3\frac{1}{3} = \frac{9}{2} \times \frac{10}{3} = 15$	
24.	For every 5 adults present at a family treat, there were 12 children. If there were 30 adults present, how many children were there?	5 adults = 12 children 1 adult = $\frac{12}{5}$ 30 adults = $\frac{12}{5} \times \frac{30}{1}$ = 72 children	
	Answer (2)		
25.	$\frac{5}{8}$ m of cloth is used to make a vest. How many metres of cloth are needed to make 12 similar vests? Answer (2)	$1 \text{ vest} = \frac{5}{8}$ 12 vests = $\frac{5}{8} \times \frac{12}{1}$ = 7.5 m	

Each question is worth either 2 or 3 marks. Answer ALL questions. Show ALL working in the Working Column.

26.	From a piece of cloth 12m long, Sally used 4.5m to make a dress, 2.8m to make a skirt and the rest to make a suit. Calculate how much cloth she used to make a suit.	Suit = $12 - (4.5 + 2.8)$ = $12 - 7.3$ = $4.7m$	
	Answer (3)		
27.	65% of a class was present on Friday. If there were 7 children absent, how many children were there in the class altogether? Answer (3)	Present = 65% Absent = 35% Absent = $\frac{35}{100}$ or $\frac{7}{20}$ $\frac{7}{20} = 7$ $1 = \frac{7}{1} \times \frac{20}{7}$ = 20 students	
28.	A survey showed that in a group of 25 people, 8 people liked red, 12 liked green and the rest liked blue. What percent of the people liked blue? Answer(2)	Blue = $25 - (8 + 12)$ = $25 - 20$ = 5 Percent liked blue = $\frac{5}{25} \times \frac{100}{1}$ = 20%	

29.	The opposite faces of a die are painted in green, white and black. When thrown, points are awarded as follows:	Tom = $(2 \times 10) + (1)$ = $20 + 15$ = 35 points	x 15)	
	COLOURSPOINTSGreen5White10	COLOURS	NO. OF	
	Black 15		THROWS	
		Green	1	
	Tom made three throws and got white	White	2	
	twice and black once. How many points	Власк	3	
	did he score?	Jerry = 70		
	Answer	1 green = 1×5		
	(1)	= 5		
		$3 \text{ black} = 3 \times 15$		
	Jerry scored /0 points. Complete the	= 45		
	Jerry threw the colour WHITE.	White Points = $70 - 70$	(5+45)	
	COLOURS NO. OF THROWS	= 20 White Throws = 20	÷ 10	
	Green 1	= 2	throws	
	White			
	Black 3			
	(2)			
30.	Larry earns \$120.00 per day. He spends $\frac{1}{4}$ of his money on lunch.	(a) Lunch $=\frac{1}{4} \times \frac{120}{1}$ = \$ 30		
	(a) How much does his lunch cost?	(b) Change = \$ 120 = \$90	- \$30	
	Answer(1)			
	(b) Calculate how much change Larry remains with after buying lunch.			

	Answer(2)		
31.	Below are diagrams of triangle X and rectangle Y. 15 cm X $12 cm$ Y $15 cm$ Y $12 cm$ Y Which figure has the GREATER area? Answer (3)	Area of triangle = $\frac{B \times H}{2}$ = $\frac{15 \times 12}{2}$ = 90cm ² Area of rect. = L x W = 12 x 6 = 72cm ² \therefore Figure X has the greater area	
32.	A father is three times as heavy as his son. If together they weigh 96kg, how heavy is the father? Answer(2)	Son = X Father = 3X Father and Son = $4X$ 4X = 96kg $X = 96 \div 4$ = 24 Father = 24×3 = 72kg	
33.	A bus arrived in Arima at 8:07a.m. It took 15 minutes for the passengers to get on and 48 minutes to get to Sangre Grande. (a) At what time did the bus get to Sangre Grande? Answer (2) (b) If the bus returned to Arima at 10:55a.m, how long did the bus	 (a) Time taken = 8:07 + (15 + 48) = 8:07 + 1:03 = 9:10 am (b) Return = 10:55 9:10 = 1hr 45 minutes 	

	take to return?		
	Answer (1)		
34.	Calculate the AMOUNT to be repaid on a loan of \$5000.00 for 5 years at $12\frac{1}{2}\%$ per annum. Answer \$(3)	$S.I = \frac{P \times R \times T}{100}$ = $\frac{5000 \times 5 \times 25}{100 \times 2}$ = \$3125 Amount = \$5000 + \$3125 = \$8125	
35.	CHARLIE'S CHAIR RENTAL Plastic Chairs – \$2.00 per chair Chrome Chairs - \$3.00 per chair A school rented 150 plastic chairs and 25 chrome chairs for graduation. Calculate how much money the school would have to pay for the rental of ALL the chairs. Answer (3)	Total = (150 x 2) + (25 x 3) = \$300 + \$75 = \$375	
36.	Draw the net of the solid shown.		

r			
	(2)		
37.	MANGOES 4 FOR \$10.00 (a) How much would mother pay for 1 DOZEN mangoes? Answer (1) (b) How many mangoes can mother buy with \$45.00? Answer (2)	(a) 4 mangoes = \$10 1 mango = $\frac{10}{4}$ 12 mangoes = $\frac{10}{4} \times \frac{12}{1}$ = \$30 (b) \$10 = 4 mangoes \$5 = 2 mangoes \$40 = 4 x 4 = 16 mangoes \$45 = 16 + 2 = 18 mangoes	
38.	Paul is making tickets for a fundraiser using bristol board. The size of each ticket is 20cm by 15cm. How many tickets can Paul get from a larger sheet of Bristol board of length 2m and width 1.5m? Answer(3)	Bristol Board = $2m \ge 1.5m$ = $200cm \ge 150cm$ Tickets = $20cm \ge 15cm$ No. of tickets = $\frac{200 \ge 150}{20 \ge 15}$ = 100cm	

39.	Draw in the line(s) of symmetry on the net of the figure shown below.				
	(2)				
40.	The incomplete tally chart shows the favourite toys of Standard One pupils.	TOYE		EDEOLENCY	
		TOYS	TALLY	FREQUENCY	
	TOYS TALLY FREQUENCY	Transformers	₩1 ₩1 		
	Transformers 111 111 11	Lego Blocks	JHH 111	8	
	Lego Blocks 8	Play Doh	H11 HHT	19	
	Play Doh ∰ ∰ ∰ 19 Ⅲ		H11 IIII		
	If there are 40 pupils in Standard One complete the tally and frequency chart above. Answer (2)				

SECTION 3

Each question is worth 5 marks. Answer ALL questions. Show ALL working in the Working Colu
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41.	In a school-show for 65 students, $\frac{4}{5}$ of the students attended. (a) How many students attended the show? Answer:(2) (b) How many students did not attend the show? Answer:(1) (c) If there were 4 teachers who attended the show, calculate the fraction of the viewing population that was made up of teachers. Answer:(2)	(a) Attended = $\frac{4}{5} \times \frac{65}{1}$ = 52 students (b) Did not attend = $65 - 52$ = 13 students (c) $\frac{4}{56} = \frac{1}{14}$	
42.	There are 240 guavas in a box. Jack got $\frac{3}{10}$ of the guavas, Jill got $\frac{1}{4}$ and Sam took the rest. (a) How many more guavas Jack received than Jill? Answer:(2) (b) Calculate the number of guavas Sam got. Answer:(2) (c) Sam sold 40 of his guavas. How many guavas does Sam now have? Answer:(1)	(a) Jill $= \frac{1}{4} \times \frac{240}{1}$ = 60 guavas Jack $= \frac{3}{10} \times \frac{240}{1}$ = 72 guavas Difference = 72 - 60 = 12 guavas (b) Sam = 240 - (60 + 72) = 240 - 132 = 108 guavas (c) Sam = 108 - 40 = 68 guavas	

43.	Two semi-circles and a rectangle are joined together as shown.	(a) $W = 7 \times 2$ = 14cm	
	W W 8 cm	(b) Circumference = D x π = $\frac{14}{1} \times \frac{22}{7}$ = 44cm X = 44 ÷ 2 X = 22cm (c) Perimeter of shape = 44 + 8 + 8 = 60cm	
	Use the information from the diagram to calculate the following:		
	(a) the value of W .		
	Answer:(1)		
	(b) the length of the curved part labeled X .		
	Answer:(2)		
	(c) the perimeter of the shape.		
	Answer:(2)		

44	 A DVD club charges an overdue fee of \$2 per night per movie. Ryan paid overdue fees of \$32 for returning 4 DVD movies late. (a) How many nights were the movies late? 	 (a) 4 DVD's = \$32 1 DVD = \$32 ÷ 4 = \$8 \$2 = 1 night overdue \$8 = 1 x 4 = 4 nights overdue 	
	Answer:(3) (b) How many movies Ryan rented if	(b) 1 night = 2^{3} 3 nights = 2×3^{3} = 6^{3}	
	he paid \$30 in overdue fees for 3 nights?	\$6 = 1 movie overdue \$30 = 5 movies overdue	
	Answer:(2)		



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(a) Perimeter = 2L + 2W
              =(2x14) + (2x7)
              = 28 + 14
             = 42cm
(b) Square
(c) Perimeter of square = S \times 4
                        = 14 \text{ x} 4
                       = 56cm
(d) 4 lines of symmetry
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46.	The pictograph below shows the population of four schools.		(a) $2 x \bigcirc = 2 \times 50$ = 100 pupils	
	POPULATION OF FOUR SCHOOLS		(b) $2 \times \bigcirc = 2 \times 50$	
	School A		= 100 pupils more	
	School B	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	(c) Total Population	
	School C	\odot \odot	= 13 x (0) =650 pupils	
	School D	$\odot \odot \odot$	150 3	
	 (a) What is the population of school C? Answer:(1) 		(d) $\frac{150}{650} = \frac{3}{13}$	
	(b) How many r school B that	nore pupils attended n school A ?		
	Answer:	(1)		
	(c) What is the t four schools	total population of the ?		
	Answer:	(1)		
	(d) What fractio attend schoo	on of all the pupils I A ?		
	Answer:	(2)		
	END O	F TEST 18		