

MATHEMATICS TEST 5

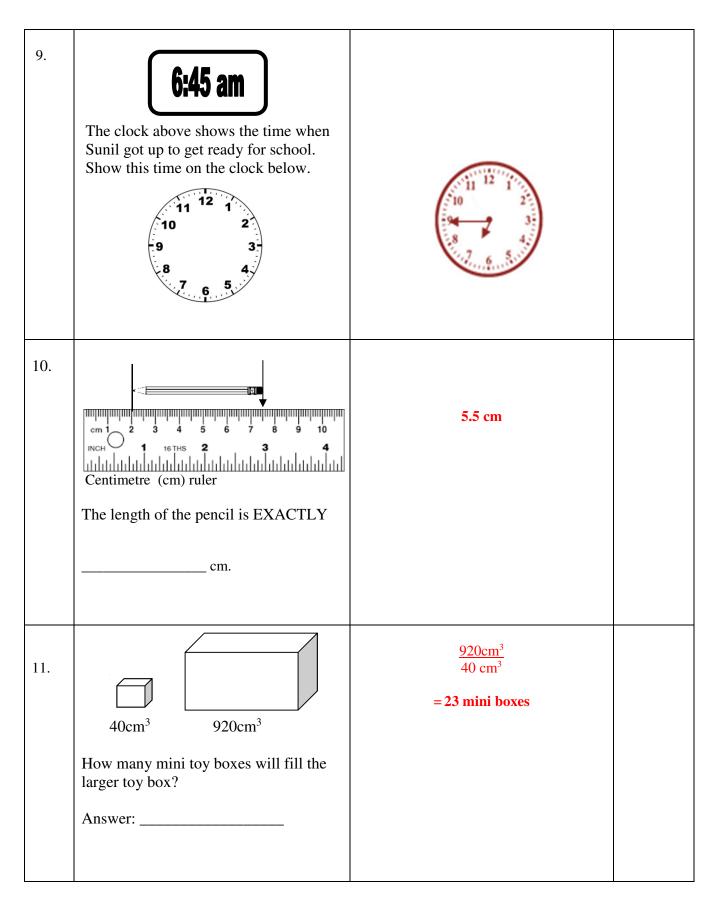
TIME-75 MINUTES

SECTION 1

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

NO.	ITEMS	Working Column	Marks
1.	What is the PLACE VALUE of the digit 7 in the number 529.72?	TENTHS	
	Answer:		
2.	Write the numeral which represents (9×10000)+(6×1000)+(4×100)+(3× $\frac{1}{100}$)	96 400.03	
	Answer:		
3.	Express $4\frac{2}{5}$ as an IMPROPER fraction.	$4\frac{2}{5} = \frac{22}{5}$	
	Answer:		
4.	Convert 0.45 to a fraction in its LOWEST terms. Answer:	$\frac{45}{100} = \frac{9}{20}$	
5.	What percent of 36 is 12?	$\frac{12}{36} \times \frac{100}{1}$	
	Answer:	$=33\frac{1}{3}\%$	

6.	What FRACTION of the diagram is NOT shaded? Answer:	3 8	
7.	What must be added to $\sqrt{100}$ to make 10^2 ? Answer:	$\sqrt{100} = 10$ $10 + \square = 100$ $\square = 100 - 10$ $\square = 90$	
8.	A pack of juice holds 250ml. For the provided How many model of provided How many model of the drink? Answer:ml	$Drank = \frac{40}{100} x \frac{250}{1}$ = 100 ml	



12.	The perimeter of a Rhombus is 48cm. What is the length of ONE side? Answer:cm.	Perimeter of Rhombus = 48 ÷ 4 = 12cm	
13.	All the sugar from the 3kg bag is put into smaller packets each weighing 150g. Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar Sugar	$\frac{3000}{150} = 20$ 20 smaller packets	
14.	Danny bought a cell-phone for \$1200.00 and sold it to make a profit of \$300.00. Express the profit as a percentage of the cost price. Answer:	$\frac{300}{1200} \times \frac{100}{1} = 25\%$	
15.	Vendor A sells mangoes at 4 for \$5.00. Vendor B sells mangoes at 5 for \$6.00. Which vendor sells the mangoes at a cheaper price? Answer:	Vendor A = $\$ 5 \div 4$ = $\$ 1.25$ Vendor B = $\$ 6 \div 5$ = $\$ 1.20$ Vendor B sells at a cheaper price	

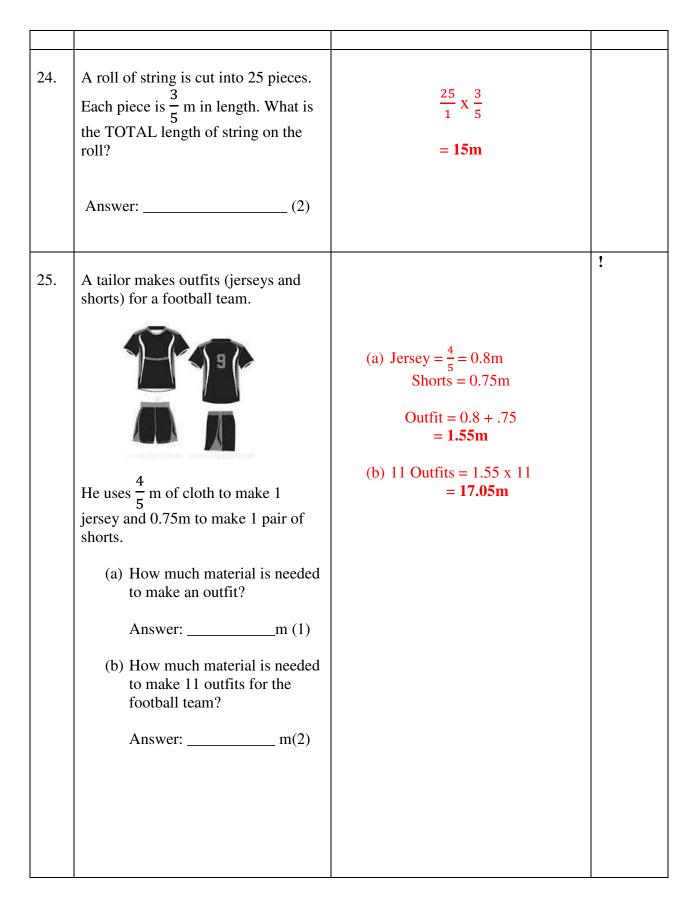
16.	Name of the solid shown below:	Sphere	
17.	Write the phrase from the box to correctly complete the sentence below. Larger Smaller The Same as Than Than as	The Same As	
18.	Gary is facing east. He made a quarter of a turn in an anticlockwise direction. What direction is he now facing? N K K E S Answer:	North	

19.	The tally chart of boys who ow			25 - 17 = 8
	CLASS	NUMBER BOYS		8 boys owned fishes in Standard One
	Std. 1			
	Std. 2		II	
	Std. 3	TIII		
	If there were 25 classes, how ma in Standard One Answer:	any boys owned e?		
20.	The bar chart b heights of the s Five in a secon	students in For		10 + 5 = 15
	Students 25 20 15 10 5 0 1.3 Height in How many stud 1.5m? Answer:	n (m) lents are shorte		

SECTION 2

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

No.	Items	Working Column	Marks
21.	Samantha spent $\frac{1}{4}$ of her allowance on a snack and $\frac{3}{8}$ on school stationery. She saves the remainder. What FRACTION of her money did she save?	Spent $=$ $\frac{1}{4} + \frac{3}{8}$ $=$ $\frac{5}{8}$ \therefore Saved $=$ $\frac{8}{8} - \frac{5}{8}$ $=$ $\frac{3}{8}$	
22.	Candice left home and cycled a distance of 2350m to Arima. She cycled a further 575m to her friend's house. What was the TOTAL distance in KILOMETRES Candice travelled?	2350 + 575 = 2925 2.925 km	
23.	A farmer planted coconut trees in a row. If the trees were planted 5 metres apart and the distance between the first and last tree is 45 metres, how many trees were planted?	$\frac{45}{5} = 9$ 9 + 1 =10 10 coconut trees were planted	



26.	Seventy- five relatives attended a family reunion. There were tables that seat either 3 or 4 persons. If there were 12 tables that seat 4 persons, how many tables were available to seat 3 persons?	12 x 4 = 48 Family members = 75 3 seaters = 75 - 48 = 27 ÷ 3 = 9 tables	
	Answer: (3)		
27.	 Matthew works for \$160.00 a day. He spends ¹/₈ of this money on lunch. (a) How much does he spend on lunch per day? Answer :\$(1) (b) Matthew works 5 days each week. How much of his salary is spent on lunch in 4 weeks? Answer: \$(2) 	(a) Lunch = $\frac{1}{8} \times \frac{160}{1}$ = \$20 (b) 1 day = 20 5 days = 20 x 5 1 week = \$100 4 weeks = \$100 x 4 = \$400	
28.	$37\frac{1}{2}\%$ of the marbles in a container is 252. What is the total number of marbles in the container? Answer:(3)	$37 \frac{1}{2} \% = \frac{75}{200}$ $= \frac{3}{8}$ $\frac{3}{8} = 252$ $1 = \frac{252}{1} \times \frac{8}{3}$ $= 672$	

29.	The diagram below shows the cost of a watch. VAT is charged at 15% \$300 How much will a customer pay for the watch? Answer:(2)	Watch = 115% of \$300 $\frac{115}{100} \times \frac{300}{1}$ = \$345
30.	Draw a rectangle on the grid such that the area of the rectangle is 24 square units and the length is 8 units.	

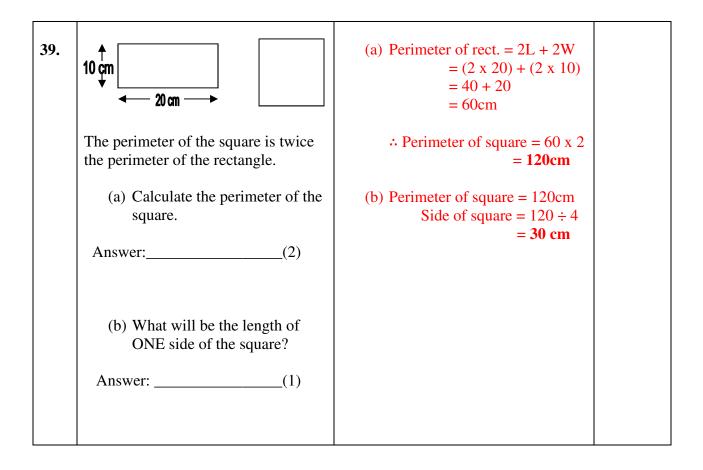
31.	Image: Apples are sold as shown above. (3 for \$10.00) (a) How much will Ruan pay for 9 apples? Answer:(1) (b) How many apples can Sally get for \$40.00? Answer:(1)	(a) 3 apples = \$10 1 apple = $\frac{10}{3}$ 9 apples = $\frac{10}{3} \times \frac{9}{1}$ = \$30 (b) \$ 10 = 3 apples \$1 = $\frac{3}{10}$ \$40 = $\frac{3}{10} \times \frac{40}{1}$ = 12 apples	
32.	 A PTA meeting lasts for 2 ¹/₄ hours. It was scheduled to start at 5:30 p.m. The meeting began 10 minutes late because of late arrival of some members. (a) Calculate the conclusion time of the meeting. Answer:(2) 	(a) 5:30 2:15 <u>:10</u> <u>7:55</u> pm	
	(b) 11 12 1 10 2 9 3 8 4 7 6 5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	

T

	On the clock above, show the time when the meeting ended. (1)		
33.	The diameter of a circle is 14cm.	(a) Radius = D ÷ 2 = 14 ÷ 2 = 7cm (b) Circumference = D x π = 14 x $\frac{22}{7}$ = 44cm 2 times = 44 x 2 = 88cm	
34.	The rates at a Hotel are shown below. Hotel Rates Adults: \$500 per day Mon Fri. Children: 10 and under \$250 A family of husband, wife and 2 children (ages 9 and 5 years), spent Wednesday to Friday at the Hotel. Calculate how much they paid for their stay at the Hotel.	Adults = 2 x \$500 = \$ 1000 /day 3 days = \$ 1000 x 3 = \$ 3000 Children = 2 x \$ 250 = \$ 500 /day 3 days = \$ 500 x 3 = \$ 1500 Total = \$ 3000 + \$ 1500 = \$ 4500	

	Answer:(3)	
35.	Larry borrows \$8000 for 3 years from a Bank. He pays 8% interest per year. (a) Calculate the interest. Answer: \$(1) (b) Calculate the TOTAL amount he has to repay the bank. Answer: \$(2)	(a) Simple Interest = $\underline{P \times R \times T}$ 100 $= \frac{\$8000 \times 8 \times 3}{100}$ Simple Interest = $\$ 1920$ (b) Total Amount = $\$ 8000 + \frac{\$ 1920}{\$ 9920}$ Amount = $\$ 9920$
36.	Draw the new position of the triangle after it is flipped about the mirror line.	

37.	The diagram below shows the net of a solid.	(a) Square based pyramid	
		(b) 4	
	(a) What is the name of the solid?		
	Answer:(1)		
	(b) How many lines of symmetry are there in the net?		
	Answer:(1)		
38.	(a) What is the size of the smaller angle formed between the two hands on the face of the clock shown?	(a) 1 space = 30^{0} 5 spaces = $30^{0} \times 5$ Smaller angle = 150^{0}	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(b) $90^{0} = 3$ spaces = 7 + 3 =10	
	Answer:(1)		
	(b) What number will the short hand point if it moved 90° in a clockwise direction?		
	Answer(2)		



Day of the Week	No. of Messages	$= \frac{30 + 23 + 28 + 31 + 28}{23 + 28 + 31 + 28}$
Monday	30	5
Tuesday	23	$= \frac{140}{5}$ $= 28 \text{ texts per day}$
Wednesday	28	
Thursday	31	
Friday	20	
		st
alculate the average of the sen	erage number of tex ds per day.	st
alculate the averages he sen	erage number of tex ds per day.	ct
alculate the average of the sen	erage number of tex ds per day.	xt
Calculate the average of the sen	erage number of tex ds per day.	st
Calculate the average of the sen	erage number of tex ds per day.	ct
Calculate the avenues ages he sen	erage number of tex ds per day.	xt
Calculate the average of the sen	erage number of tex ds per day.	st i

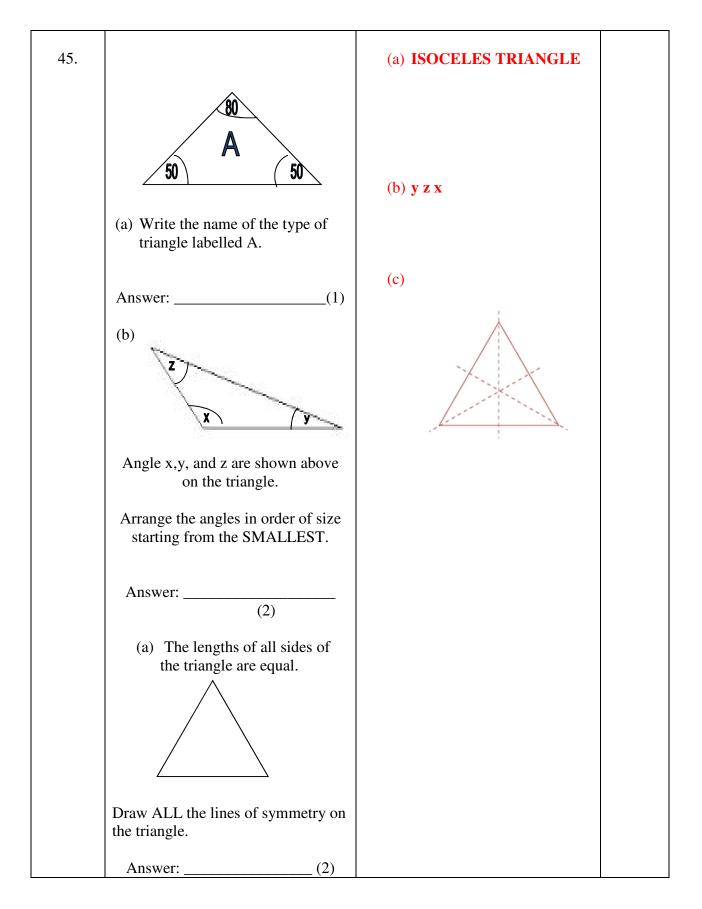
SECTION 3

No.	Items	Working Column	Marks
41.	 Allan sold 20% of his stamps from his stamp collection. He gave his friend Harry ³/₄ of the remainder. Allan remained with 80 stamps. (a) Calculate how many stamps Allan had at the beginning. 	(a) Remained with = 80 Sold= 20 % or $\frac{1}{5}$ Remainder = $\frac{4}{5}$ Gave Harry = $\frac{3}{4} \times \frac{4}{5}$ = $\frac{3}{5}$ Sold + Harry = $\frac{1}{5} + \frac{3}{5}$	
	Answer:(3)	Sold + Harry $=\frac{1}{5} + \frac{3}{5}$ $=\frac{4}{5}$ Remained with $=\frac{5}{5} - \frac{4}{5}$	
	(b) How many stamps did Harry receive from Allan?Answer:(2)	$=\frac{1}{5}$ $\therefore \frac{1}{5} = 80$ $1 = 80 \times 5$ = 400 stamps	
		(b) Harry $=\frac{3}{5} \times \frac{100}{1}$ = 60 stamps	

42.	A gardener owned two rectangular parcels of land as shown below. $4 - 30 \text{ m} \rightarrow 4 - 15 \text{ m} \rightarrow 10 \text{ m}$ $25 \text{ m} \qquad B 10 \text{ m}$	(a) Area of Parcel B = L x W = 15 x 10 = 250 m ² (b) Area of Parcel A = L x W = 30 x 25 = 750 m ² $\frac{\text{Parcel A}}{\text{Parcel B}} = \frac{750}{250}$	
	(a) What is the area of parcel B?	= 3 times larger	
	Answer:(1) (b) How many times is parcel A larger than parcel B?	 (c) He will charge 3 times the amount that he charged for parcel B, ∴ \$250 x 3 = \$750 	
	Answer: (2)		
	(c) A plough owner was paid \$250.00 to prepare parcel B. How much will he charge to plough parcel A?		
	Answer:(2)		

43.	The stove shown was bought by Janet.	(a) Discount = 20% x \$5000 = $\frac{1}{5} x \frac{5000}{1}$ = \$ 1000	
	Original Price \$5000 20% off	(b) After disc. = \$5000 - \$1000 = \$ 4000	
	(a) Calculate the discount given.		
		(c) VAT = $\frac{115}{100} \times \frac{5000}{1}$	
	Answer:(2)	= \$5750	
	(b) Calculate the price after the discount.		
	Answer:(1)		
	(c) Janet was charged 15% VAT after the discount was given. Calculate the price paid for the stove.		
	Answer: (2)		

44.	The two containers below show the capacity of water in each of them.	(a) 8.5 L = 8500 ml = $\frac{8500^{10}}{850^{-1}}$	
		= 10 small containers can be filled from the big container	
	8.5 litres 850ml	(b) 1 sm. container = 1.5 mins 10 sm. Containers = 1.5 x 10 = 15 mins	
	(a) How many small containers of water can be filled from the large container?	Started = 9 : 15 Took = $\frac{: 15}{9:30}$ am	
	Answer:(2)	Completed filling at 9:30 am	
	(b) A student took $1\frac{1}{2}$ mins to fill 1 small container of water from the large container. If he began an exercise at 9:15 a.m. to fill the number of small containers at what time did he complete the exercise?		
	Answer:(3)		



46.			
		(a) Transport = $180^{\circ} - (90^{\circ} + 45^{\circ})$	
		$= 180^{\circ} - 135^{\circ}$	
		$=45^{0}$	
	Misc Savings F. Transford		
	E Trenst	(b) Savings = $360^{\circ} - (180^{\circ} + 40^{\circ})$	
	Savings	(b) Savings $= \frac{360^{\circ} - (180^{\circ} + 40^{\circ})}{2}$	
	45°	$= 360^{\circ} - 220^{\circ}$	
		$=\frac{360^{\circ}-220^{\circ}}{2}$	
		$=\frac{140}{2}$	
	Rent Food		
		$= 70^{0}$	
	This pie chart above shows the		
	budget of Mr. Kapil's monthly		
	salary of \$7200.00	(c) $\frac{70}{360} \times \frac{7200}{1}$	
		360 1	
	(a) What is the size of the angle	=\$ 1400	
	that represents transport?	-• • •	
	Answer:(1)		
	(b) Savings and Rent represent the		
	same amount.		
	Calculate the size of angle of Mr.		
	Kapil's savings for the month.		
	Answer:(2)		
	Allswel(2)		
	(c) Calculate the amount of money		
	spent on rent for the month.		
	spent on rent for the month.		
	Answer:(1)		
	(-)		
	(d) Circle one of the following to		
	show the angle representing rent.		
	$45^0, \ 70^0, \ 90^0, \ 40^0$		
	Answer:(1)		
	End of Tost		
	End of Test		