TEST

MATHEMATICS TEST 7

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 872 156?	TEN OF THOUSANDS TEN THOUSANDS	
	Answer:		
2.	Find the difference between 1354 and 869.	485	
	Answer:		
3.	Express 50% as a fraction in its LOWEST terms.	$\frac{50}{100} = \frac{1}{2}$	
	Answer:		
4.	Write the number 306 to the NEAREST hundred.	300	
	Answer:		
5.	MULTIPLY: 5.04 X 0.6	5.04 X 0.6 = 504 X 6 = 3024 = 3.024	
	Answer:		

6	•

Shade $\frac{4}{5}$ of the shape below.





7.

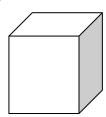
A football team played 12 games. The team lost 1 game, drew 2 and won the others. Write the number of games they WON as a decimal.

Answer: _____

Total games played = 12Won = 9(12-3)Fraction = $\frac{9}{12}$

8.

How many vertices are there in the cube?

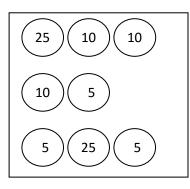


Answer: __

8

9.

Aaron has the coins shown in the box below.



How much money does he have in TOTAL?

Answer:_____

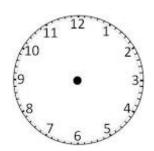
Total = 25+10+10+10+5+5+25+5

= 95c or \$ 0.95

10.	4.36 kilograms = grams	4.36 x 1000 = 4360 g
	Answer:grams	
11.	Ria left home at 8:50 a.m and returns 11 hours later. At what time did Ria return home?	7 : 50 pm
	Answer:	
12.	Bowl A Bowl B By how much is bowl A heavier than bowl B? Answer:	Bowl A – Bowl B = 3500 – 2680 = 820 g heavier
13.	How many pieces of rope, each 30cm long can be cut from a piece of rope 3.6m long?	3.6 m = 360 cm Pieces that can be cut = 360 ÷ 30 = 12 pieces
	Answer:pieces	

Jimmy runs THREE laps around the playground. He starts at 9:10am and takes 15 minutes to run each lap.

Draw the time he finishes on the clock below:



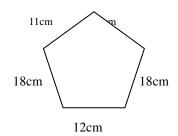
Answer: _____

1 lap = 15 mins3 laps = 15 x 3= 45 mins

Started = 9:103 laps = $\frac{:45}{9:55}$ am



15. Calculate the perimeter of the polygon.



Answer: _____

Perimeter of polygon =

$$12 + 18 + 18 + 11 + 11$$

= **70** cm

16.



Apples 2 for \$5.00

Bananas 3 for \$10.00

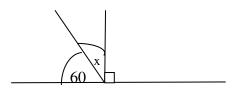
Mummy buys 6 apples and 3 bananas. How much does she spend?

Answer: _____

- 2 apples = \$5
- 1 apple = $\frac{5}{2}$
- 6 apples = $\frac{5}{2}$ x 6
- 3 bananas= \$10

Total Spent = \$15 + \$10 = **\$25**

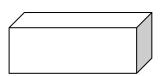
17.	What is the value of the x ?
1/.	What is the value of the x .



Answer: _____

$$x^{0} = 180^{0} - (60^{0} + 90^{0})$$
$$x^{0} = 180^{0} - 150^{0}$$
$$x^{0} = 30^{0}$$

18.



This garden box is 12cm long and 5cm wide. If it contains 120cm³ of soil, what is the depth of the soil in the box?

Answer: _____cm

Height of box = $\frac{\text{Volume}}{\text{L x W}}$

 $= \frac{120}{12 \times 5}$ $= \frac{120}{60}$ = 2cm

19. The table below shows subjects studied by $\frac{\text{Sum}}{\text{N(n)}}$

Subject studied	Number of pupils
Mathematics	15
Grammar	18
Science	19
Social Studies	20

Calculate the mean.

Answer _____pupils

Mean = $\frac{\text{Sum}}{\text{N(n)}}$ = $\frac{15 + 18 + 19 + 20}{4}$

> = <u>72</u> 4

= 18 pupils

20. The table below shows the number of runs scored in 4 cricket matches.

Match	Runs scored
1	
2	
3	
4	

Represents 3	runs
--------------	------

The team scored a total of 36 runs. Complete the table to show the number of runs scored in match 4.

Answer: _____

6		2	_	12		(0 0)
U	÷	J	_	14	1	$\langle - \rangle$

$$= 12 - 8$$
$$= 4$$



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.	A bus travels 30 kilometres in 10 minutes. How far will the bus travel in 40 minutes? Answer:km (3)	Speed = $\frac{\text{Distance}}{\text{Time}}$ = $30 \div 10$ = 3 km 1 min = 3 km $40 \text{ mins} = 3 \times 40$	
		=120km	
22.	A class comprising 30 students has 12 boys. What percentage of the class is girls? Answer:	Girls = $30 - 12$ = 18 Percentage = $\frac{18}{30}$ x 100	
		= 60%	
23.	A jersey was priced at \$75.00 How much money do I save if I am given a 20% discount?	Discount = 20% x \$75 = $\frac{20}{100}$ x 75 = \$ 15	
	Answer:(2)		
24.	Three numbers when added gives a total of 965. If two of the numbers are 313 and 146, what is the third number?	$965 = 313 + 146 + \square$ $965 = 459 + \square$ $965 - 459 = \square$ $506 = \square$	
	Answer:(2)		
25.	Jack had a piece of rope $5\frac{3}{5}$ m long. If he used $3\frac{1}{3}$ m of it, what length of the rope remains?	$5\frac{3}{5} - 3\frac{1}{3}$ $2 \frac{9 - 5}{15}$	
	Answer:m (2)	$=2\frac{4}{15}$	

26.	A school has 12 classes each containing 20 pupils. 4 pupils were absent in each class on Tuesday. Calculate the percentage of students PRESENT at school on Tuesday. Answer:(3)	Total Population = 12 x 20 = 240 Present = 12 x (20 - 4) = 12 x 16 = 192 present Percentage = $\frac{192}{240}$ x $\frac{100}{1}$ = 80%	
27.	Mummy poured water from 2 three-litre containers into glasses that could each hold 250ml of water. How many glasses of water will she fill? Answer:	1 - 2L = 2000ml $2-2L = 2000 \times 3$ = 6000ml Glasses = $6000 \div 250$ = 24 glasses	
28.	Find the product of 3 and 6.25. Answer:(2)	3 x 6.25 = 625 x 3 = 1875 = 18.75	
29.	Calculate the area that is shaded below if each block represents 1 square centimeter. Answer:cm² (2)	$1 \text{ block} = 1 \text{cm}^2$ $20 \text{ blocks} = 1 \text{cm}^2 \times 20$ $= 20 \text{cm}^2$	

30.



(a) Write the time shown in digital notation.

Answer: ______(1)

(b) Through how many degrees must the long hand move to point to the nine?

Answer: _____degrees(2)

(a) **9:35**

(b) 1 space = 30°

2 spaces =
$$30^{\circ} \times 2$$

= 60°

31.

CAR PARK

\$6.00 per hour or any part thereof

Mr. James parked his vehicle at 7:35am and returned at 1:15pm. How much did he have to pay?

Answer: ______(3)

7: 35 - 1:15 = 6 hours (Rounded)

Paid =
$$6 \times $6$$

= $$36$

32.	Four numerals are shown below. (a) Smallest four-digit odd number Answer:	 (a) Smallest odd 4 digit number = 3567 (b) Largest 4 digit number = 7653 	
33.	Mary bought 4 dozens pens at \$4.00 each. She sold them for \$5.00 each. (a) How much profit did Mary make? Answer:	(a) Profit = S.P - C.P = \$ 5 - \$ 4 = \$1 Number of pens bought = 4 x 12 = 48 Profit = 48 x \$1 = \$48 (b) Cost Price = 48 x \$4 = \$ 192 Profit Percent = $\frac{48}{192}$ x $\frac{100}{1}$ = 25%	
34.	Mrs. Singh borrows \$10 000.00 from the bank at a rate of 6% over 3 years. Calculate the amount she will have to repay after the three years have passed. Answer:(3)	$S.I = \underbrace{P \times R \times T}_{100}$ $= \underbrace{10000 \times 6 \times 3}_{100}$ $= \$1800$ $Amount = \$10 000 + \$1 800$ $= \$11 800$	

35.	(a) Complete the table below.

below.

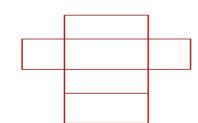
Shape	Edges	Vertices	Faces
Cuboid		8	6

Cuboid 12 8 6	Shape	Edges	Vertices	Faces
	Cuboid	12	8	6

(b)

Answer: ______ (1)

(b) Draw a net of a cuboid in the space provided



Answer: ______ (2)

36. Tim works an eight hour day and earns \$15 per hour.

(a) If he works for 6 days, how much money does he earn?

Answer: \$_____(1)

(b) When Tim works on Sundays, he is paid per hour at 1 ½ times the week's day rate. How much does Tim earn on a Sunday?

Answer: ______(2)

Which of the following is the best bargain? **37.** 3 kg = \$13.501 kg = \$13.504kg Rice 5kg Rice 3kg Rice **= \$ 4.50** For \$13.50 For \$8.00 For \$9.00 4kg = \$8 \mathbf{C} A В 1 kg = \$8**= \$ 2** Answer: ______(3) 5kg = \$91 kg = \$9**= \$ 1.80** ∴ C is the best bargain 38. A table and four chairs together cost \$440. The $4 \text{ chairs} = 4 \times \60 cost of each chair is \$60. Calculate the cost of the =\$ 240 table. ∴ Table costs = \$440 - \$240= \$200 Answer: \$______(2) Food = $\frac{1}{4} \times \frac{640}{1}$ = \$ 160 **39.** The pie chart below shows how a budget of \$640 was spent in a household. Food Bills 128° Rent How much money was spent on food? Answer: _____(2)

40.	Three bags of flour weighed the following: 2kg 340g; 1kg 260g; 4kg 700g. Calculate the total mass of the three bags.		Total Mass = 2kg 340g 1kg 260g 4kg 700g + 7kg 1300g + 1kg - 1000g 8kg 300g	
	Answer:	(2)	+ 1 kg - 1000g 8 kg 300g or 8.3 kg	

SECTION 3

Each question is worth 5 marks. Answer ALL questions. Show ALL working in the Working Column.

41.	Mr. Bean bought a box of 250 apples. 50% were ripe, 20% were green and the remainder had to be disposed.	(a) Ripe = 50% x 250 = 125 apples	
	(a) How many apples were ripe?	(b) Disposed = 30% (100% - 70%) = $\frac{3}{10} \times \frac{250}{1}$ = 75 apples	
	Answer:(1)	(c) 250 apples = \$ 50	
	(b) How many apples had to be disposed?	1 apple = $$50 \div 250$ = $$0.20$	
	Answer:(2)	Disposed = 75 apples Loss = $75 \times \$0.20$	
	(c) Mr. Bean paid \$50 for the box of apples. How much money did he lose?	= \$ 15	
	Answer:(2)		

42.	The price list at the car	feteria at Movie C	ity is	(a) 2 popcorns = \$7.25 x 2 = \$ 14.50	
	shown below.			1 soft drink = \$5.00	
			1 candy $= 3.50		
	Price List		Total = \$ 23.00		
	Б	Φ7.25		2	
	Popcorn	\$7.25		3 popcorns= \$ 21.75 (\$7.25 x3)	
	Soft Drink	\$5.00		2 soft drinks = $\$10.00 (\$5 \times 2)$	
	Candy	\$3.50		2 candies = $\frac{\$ 7.00}{\$ 39.75}$ (\$3.50 x 2)	
	Sandy bought 2 popco: candy. Steve bought 3 po			= \$38.75 Total spent = \$23.00 + \$38.75 $= 61.75	
	2 candies.				
				(b) Difference = \$38.75 - \$23.00	
	(a) What is the total	amount spent by S	Sandy	= \$ 15.75	
	and Steve?				
				(c) Soft drinks = $$15.75 \div 5.00	
	Answer:		(2)	= 3 soft drinks	
	(b) How much more th spend?	an Sandy did Steve			
	Answer:		(2)		
			. (-)		
	(c) How many soft drift the difference in the and Steve? Answer:	e amount spent by S	Sandy		
43.	Ms. Sookoo has 120 crayred, 3/10 are blue, an calculate	•		(a) Red = 20% x 120 = 24 red crayons	
	(a) the number of red crayons			(b) Percentage blue = $\frac{3}{10} \times \frac{100}{1}$	
				= 30%	
	Answer:	((2)	(c) Purple = 100% - (20% + 30%)	
	(b) the percentage of blu	e crayons.		$= 50\%$ $= \frac{1}{2}$	
	Answer:	((1)	2	
	(c) the fraction of crayon	ns that are purple			
	Answer:	((2)		

44.	44. Students of the Standard One department are going on a field trip. 115 boys and 110 girls are going. (a) If one teacher must accompany every 15 students, how many teachers must go on the field trip? Answer:						(a) Total no. of pupils = 115 +110 = 215 pupils No. of teachers = 215 ÷ 15 = 14 + 1 = 15 teachers
							(b) $215 + 15 = 230$ persons No. of buses = $230 \div 23$ = 10 buses
45.	The weight of a group of athletes is shown in the table below: Name: Ann Paul Eli Seeta Sean Weight: 74 64 83 83 86 (a) What is the modal weight? Answer			Seeta 83 kg (for the general kg (2) what is to	(a) Modal Weight = 83kg (b) Average Weight = 74 + 64 + 83 + 83 + 86 = 390 5 = 78 kg (c) If Paul leaves = 390 - 64 Total = 326 4 = 81.5 kg		

46. The container in the diagram holds 2 litres of (a) 5 glasses = 150 x 5juice when filled. = 750 mlJuice left = 2000 - 750= 1250 ml2 litres (b) Full glasses = $1250 \div 150$ 150 ml = 8 full glasses Ronald fills 5 glasses with 150ml juice. (a) How many milli-litres of juice is left in the bottle? Answer: _____ml (3) (b) How many more FULL glasses can he pour from the remaining juice? Answer: ______(2)

END OF TEST 7