TEST

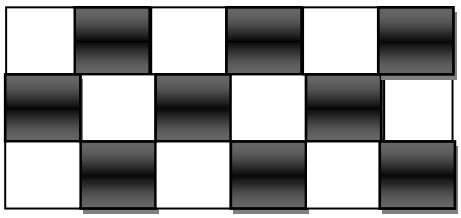
2

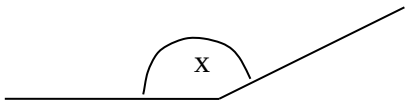
MATHEMATICS TEST 2 TIME- 75 MINUTES

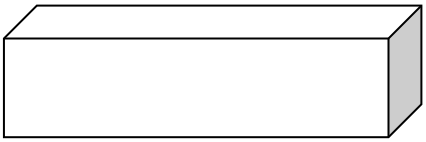
SECTION 1

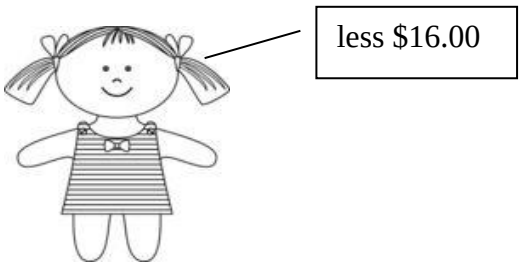
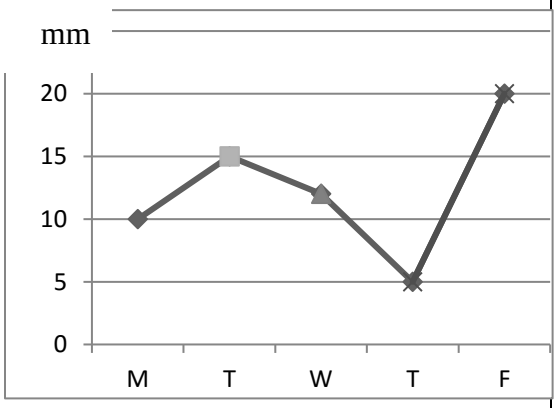
Each question is worth 1 mark. Answer ALL questions. Show ALL working in the Working Column.

No.	Items	Working Column	Marks
1.	Write 216 004 in words. Answer:_____ _____	**Two hundred and sixteen thousand and four.**	
2.	Estimate 9657 to the nearest ten. Answer: _____	9 6 5 | 7 +1 **9 6 6 0**	
3.	Calculate 16 ÷ 0.5 Answer: _____	16 ÷ 0.5 = 160 ÷ 5 = **32**	
4.	> < = Use ONE of the symbols above to complete $\frac{2}{3}$ ☐ $\frac{5}{6}$ Answer:_____	$\frac{2}{3} = \frac{4}{6}$ ** $\frac{2}{3} < \frac{5}{6}$	

5.	What fraction is shaded?  Answer: _____	Total = 18 Shaded = $\frac{9}{18}$ = $\frac{1}{2}$	
6.	Calculate: $\sqrt{4} \times 3^3 =$ Answer:_____	$\sqrt{4}$ x 3^3 2 x 27 = **54**	
7.	What FRACTION of 96 is 32? Answer:_____	$\frac{32}{96} = \frac{1}{3}$	
8.	How many units make up the distance around the shape below?  Answer: _____	**12 units**	
9.	What is the value of the 8 in 24.837? Answer:_____	$\frac{8}{10}$ **or 0.8**	

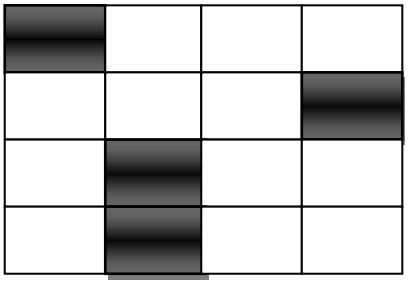
10.	How many millimetres is equal to $\frac{1}{4}$ litre? Answer:_____	**250 ml**	
11.	obtuse right acute Which word above names angle X below  Answer:_____	**Obtuse**	
12.	The stamp below has a length of 4 cm and an area of 12 cm^2. What is its width?  4 cm Answer: _____	Width = $\frac{\text{Area}}{\text{Length}}$ = $\frac{12}{4}$ = **3cm**	

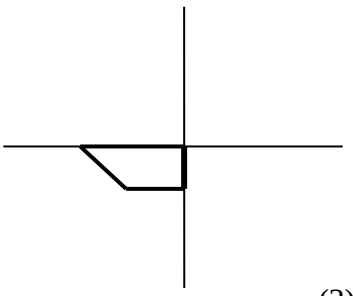
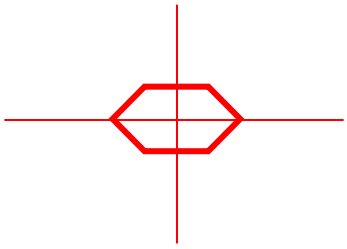
13.	Name the solid below.  Answer:_____	**Cuboid**	
14.	What is $\frac{2}{5}$ of 200? Answer:_____	$\frac{2}{5}$ x $\frac{200}{1}$ = **80**	
15.	Calculate 2.4 x 0.6 Answer:_____	**1.44**	
16.	What is 0.25 as a PERCENT? Answer:_____	0.25 x 100 = **25%**	
17.	214 x 16 Answer:_____	214 x 16 1284 + 2140 3424	

18.	The doll below costs $48.00 after the discount. What was the price BEFORE the discount?  Answer:_____	Selling Price = $ 48 + $ 16 = **$ 64**	
19.	What is 20% of 80 cars? Answer:_____	$\frac{20}{100}$ X $\frac{80}{1}$ = **16 cars**	
20.	The line graph shows the rainfall for five days.  How many mm of rain fell on Tuesday? Answer:_____	**15 mm**	

SECTION 2

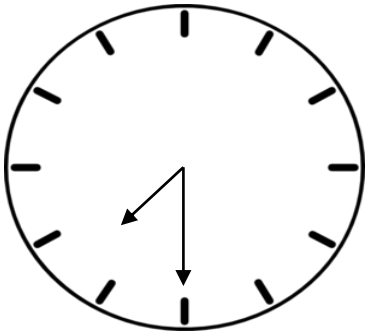
Each question is worth either 2 or 3 marks. Answer ALL questions. Show ALL working in the Working Column.

No.	Items	Working Column	Marks
21.	What is the difference between 2715 and 1389? Answer:_____ (2)	2 7 1 5 – 1 3 8 9 1 3 2 6 **1326**	
22.	For a concert each child is asked to sell 4 raffle sheets. How many raffle sheets were distributed to a class of 29 children? Answer:_____ (2)	1 child = 4 raffle sheets 29 children = 4 x 29 = **116 raffle sheets**	
23.	What **PERCENT** of the shape is **NOT** shaded?  Answer:_____ (2)	Total = 16 units Not Shaded = 12 units Percentage Not Shaded = $\frac{12}{16}$ x $\frac{100}{1}$ = **75 %**	

24.	On Friday, a fruit vendor sold 120 apples, on Saturday half as many and on Sunday $\frac{2}{3}$ of Friday's sales. How many apples were sold in all? Answer:_____ (3)	Friday = 120 apples Saturday = 60 apples { $\frac{1}{2}$ x $\frac{120}{1}$ } Sunday = 80 apples { $\frac{2}{3}$ x $\frac{120}{1}$ } Total = 120 + 60 + 80 = **260 apples**	
25.	Complete the pattern of numbers below. 1 2 2 3 4 3 a 5 6 ☐ 5 b 7 8 ☐ 8 7 c 8 ☐ 12 12 10 8 Answer: a_____ b_____ c_____ (3)	a = **6** b = **9** c = **10**	
26.	$4\frac{4}{5} \div \frac{3}{10}$ Answer:_____ (2)	$\frac{24}{5} \div \frac{3}{10}$ $\frac{24}{5}$ X $\frac{10}{3}$ = **16**	
27.	The diagram below is formed AFTER a shape was folded TWO times, once along a vertical and a horizontal line of symmetry. Complete the diagram for the original shape.  Answer:_____(3)		

28.	$\frac{3}{5}$ of Jake's game cards equals $\frac{2}{3}$ of Anil's cards. Anil has 36 cards. How many cards does Jake have? Answer:_____ (3)	Anil = 36 $\frac{2}{3}$ x $\frac{36}{1}$ = 24 cards $\frac{3}{5}$ = 24 1 = $\frac{24}{1}$ x $\frac{5}{3}$ Jake = **40 cards**	
29.	What is the sum of $\frac{3}{10}$ and $\frac{7}{100}$ as a **DECIMAL** number? Answer:_____ (3)	$\frac{3}{10} + \frac{7}{100}$ = 0.3 + .07 = **0.37**	
30.	Anisa has $68.00 while Sumaya has $12.00 **LESS.** How much money do both girls have altogether? Answer:_____ (2)	Anisa = $ 68 Sumaya = $ 56 (68 -12) Total = **$124**	
31.	Any **THREE** circles running vertically, diagonally or horizontally add up to the same total. Fill in **TWO** missing numbers. 8 3 ◯ 1 5 ◯ 6 7 2 Answer:_____(2)	Total of any line = 15 (6+7+2) ⁂ 8 3 **4** 1 5 **9** 6 7 2	

32. Daddy left home at the time shown below and arrived at work 40 minutes later.



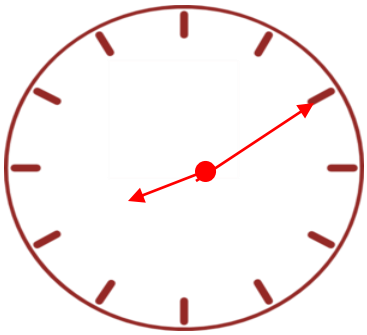
a) On the clock above, draw in the **NEW** position of the **MINUTE** hand.
Answer:_____(1)

b) Through what angle did the minute hand turn?

Answer:_____(1)

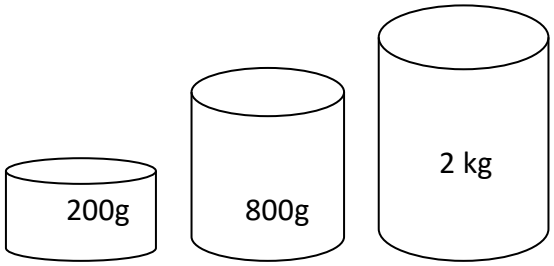
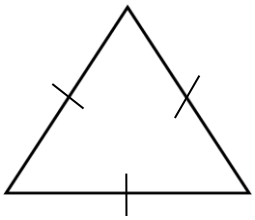
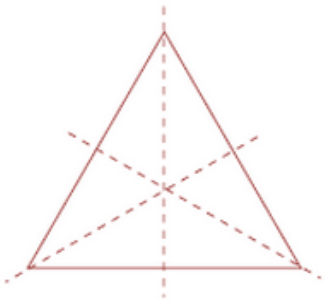
c) At what time did Daddy arrive at work?

Answer:_____ a.m. (1)

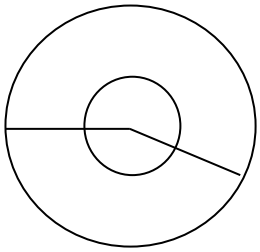
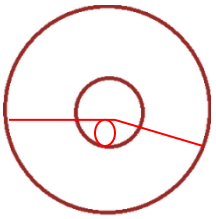


(b) 1 space = 30^0
8 spaces = 30^0 x 8
= **240^0**

(c) 8:10

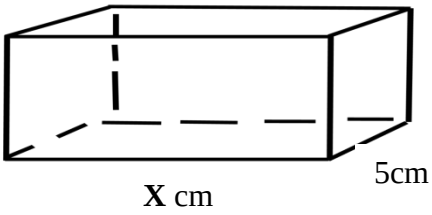
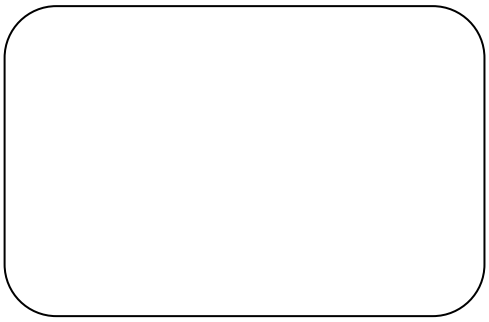
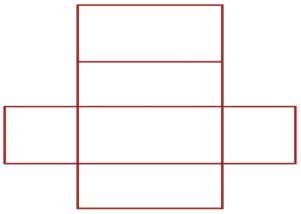
33.	Chocolate syrup is sold in the cans shown below. The costs are in a proportion to the weight of the syrup.  A B C $5.00 a) How much will container B cost? Answer:_____(1) b) How much will container C cost?	200g = $\frac{1}{5}$ kg $\frac{1}{5}$ kg = $5 1kg = $5 x 5 = $25 $\frac{800}{1000} = \frac{4}{5}$ (a) Can B = $\frac{4}{5}$ x $\frac{25}{1}$ = **$ 20** (b) Can C = $25 x 2 = **$50**	
34.	A roll of gift wrapping paper is 80 cm wide and 400 cm long. How many pieces, each 40 cm by 50 cm can be cut from the roll? Answer:_____ (3)	$\frac{80 \times 400}{40 \times 50}$ = **16 pieces**	
35.	 a) Name the type of triangle shown above? Answer:_____ (1) b) Draw in its lines of symmetry. Answer:_____(2)	(a) Equilateral Triangle (b) 	

36.	Wayne had 60 oranges. He gave $\frac{1}{3}$ of them to his cousin and $\frac{2}{5}$ to his friends. How many oranges does Wayne have left? Answer:_____(3)	Cousin $= \frac{1}{3} \times \frac{60}{1}$ = 20 oranges Friends $= \frac{2}{5} \times \frac{60}{1}$ = 24 oranges Kept = 60 – (20 +24) = 60 – 44 = **16 oranges**	
37.	The mean weight of 3 heaps of sorrel is 21 kg. One of the heaps weighs 17 kg and another weighs 24 kg. What is the weight of the last heap? Answer:_____ (3)	Mean = 21 kg Total = 21 x 3 = 63 kg Third Heap = 63 – (17 + 24) = **22 kg**	

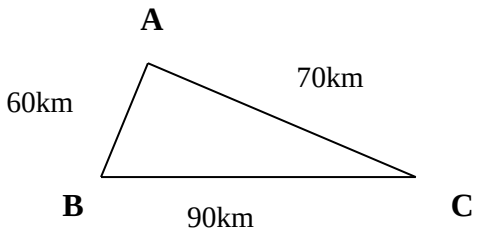
38.	a) Label the **OBTUSE** angle **'O'** in the circle below. Answer:_____(1)  b) What is the name given to the remaining angle? Answer:_____ (1)	(a)  (b) Reflex Angle	
39.	Sanjay has $1.86, made up of 25¢, 5¢ and 1¢ coins. What is the **LEAST** number of coins to make up his money? Answer:_____ (2)	$1 . 8 6 – $1 . 7 5 { 7 – 25c} . 1 1 – . 1 0 { 2 – 5c} . 0 1 { 1 – 1c} **Total Number of Coins = 10**	
40.	A box contains 40 chocolates. 30 of them are eaten. What percent of the chocolates is **LEFT**? Answer:_____ (2)	Total = 40 Left = 10 (40 – 30) Percent = $\frac{10}{40}$ x $\frac{100}{1}$ = **25%**	

SECTION 3

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

No.	Items	Working Column	Marks
41.	The uncovered plastic container below holds 160 cm^3 of water when completely filled.  a) Find the length marked x. Answer:_____ (2) b) Draw the net of the plastic container in the space below.  Answer:_____(3)	(a) Length = $\frac{\text{Volume}}{\text{W x H}}$ = $\frac{160\ cm^3}{5 \times 4}$ = $\frac{160\ cm^3}{20cm}$ = **8 cm** (b) 	

42. The diagram shows the location of three towns labeled A,B,C.



a) Mitch travels from Town A to B and then to C. How many kilometres did he travel altogether?

Answer:_____ (2)

b) The journey from town A to B took 3 hours. At what speed was Mitch travelling?

Answer:_____ (1)

c) If Mitch travelled at this rate from town A through B, then C and back to A, how long, in **HOURS**, would the journey take?

Answer:_____ (2)

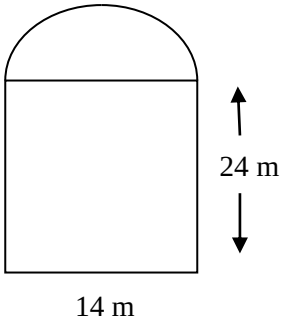
(a) A to B = 90 + 60
= 150 km

(b) Speed = $\frac{\text{Distance}}{\text{Time}}$
= $\frac{60}{3}$
= **20 km/hr**

(c) Total Distance = 60 + 90 + 70
= 220 km

Time = $\frac{\text{Distance}}{\text{Speed}}$
= $\frac{220}{20}$
= **11 hrs**

43. The diagram below shows a swimming pool.



a) What is the radius of the semi-circular end of the pool?

Answer:_____ (1)

b) Calculate the distance around the swimming pool.

Answer:_____ (2)

c) Lights are placed 7 m apart around the pool. How many lights are there?

Answer:_____ (2)

(a) Radius = $\frac{\text{Diameter}}{2}$

$= \frac{14}{2}$

= **7m**

(b) Circumference of semi-circle = $\frac{1}{2}\{ D \times \pi \}$

$= \frac{1}{2}\{ \frac{14}{1} \times \frac{22}{7} \}$

= 22cm

Distance Around Pool=

24+14+24+22

= **84m**

(c) Lights = 84 ÷ 7

= **12 lights**

44. The incomplete table shows the items Vikash bought at the candy shop.

Candy	Amount	Unit Cost	Total Cost
Candy Canes	3 boxes		$24.00
Gummy Bears	$3\frac{1}{2}$ kg	$7.00 per kg	
Lollipops		$18.00 per dozen	$ 9.00
Total Cost			$57.50

a) Complete the table above by placing the **THREE** missing values.
Answer:_____(3)

b) The lollipops Vikash bought were for 3 children. How much will lollipops for 21 children cost?
Answer:_____ (2)

(a)

Candy Canes = $ 24 ÷ 3
= **$ 8**

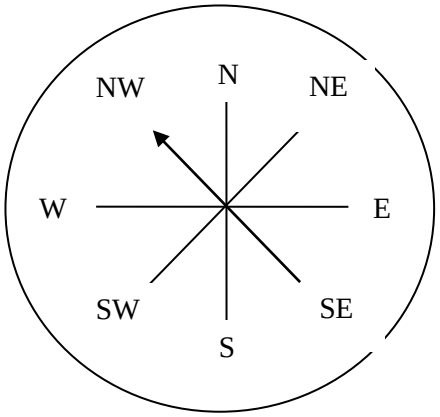
Gummy Bears = $ 7 x 3.5
= **$ 24.50**

Lollipops = $ 9
$ 18

= **$\frac{1}{2}$ kg**

(c) 3 children = $ 9
1 child = $ 3 ($9 ÷ 3)
21 children = $ 3 x 21
= **$ 63**

45.	Rajiv works at an ice-cream shop for 6 hours each day for 5 days per week. He is paid regular time at $15.00 per hour. Last week he earned $590.00 which included overtime pay at $20.00 per hour. Calculate: (a) His regular wage for the week. Answer:_____ (2) (b) How much money he received in overtime pay. Answer:_____(1) (c) The number of overtime hours Rajiv worked last week. Answer:_____(2)	(a) 1 day = 6 x $15 = $ 90 5 days = $ 90 x 5 = **$ 450** (b) Overtime = $ 590 - $ 450 = **$ 140** (c) Overtime Hours = $ 140 / $20 = **7 hours**	

46.	The diagram below shows a compass.  a) In what direction is the compass pointing? Answer:_____ (1) b) Name the direction that is exactly **HALF** turn away? Answer:_____ (1) c) The compass makes a $\frac{3}{4}$ turn in a CLOCKWISE direction. In what direction does it now point? Answer:_____ (3)	(a) **NW** (b) **SE** (c) **SW**	
	End of Test 2		