## Tom Price Senior High School

Independent Public School



## Unit 3 Essential Mathematics Mini Test 1 Measurement





Mame

Answer all questions with full setting out where necessary.

(8 Marks)		Convert to the units specified.	
<sup>2</sup> mo cm² to	(ə	m Clo Oot mo Gl	(ខ
385cm² to 38500 mm²	(1	mm OGIS of m. 31.8	(q
<sup>s</sup> mm 0002 ot <sup>s</sup> m 880.0	(6	Secm² to 3500 mm²	(၁
Smm2S1800 ot Smm2S1800	(y	1 km² to 1000000m²	(p

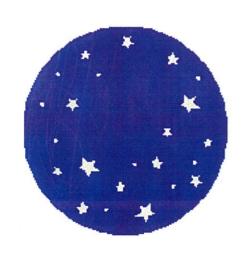
2. Write down the formula for each of the following shapes. (7 Marks)

c) Area of a circle 
$$A = A$$

d) Area of a parallelogram 
$$A = D \times L$$

e) Surface area of a cube 
$$SAB = 6L^2$$

g) Surface area of a sphere



3. The diameter of this circular placemat is 25cm. Find the circumference to 2 decimal places (2 Marks)

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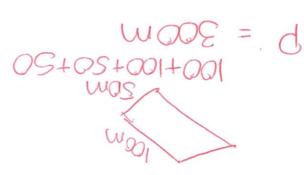
S. 61

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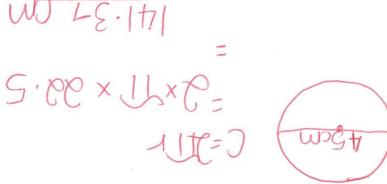


4. A rectangular football field has side lines 100m long. Each of the end lines is 50m long. What is the perimeter of the football field? (2 Marks)



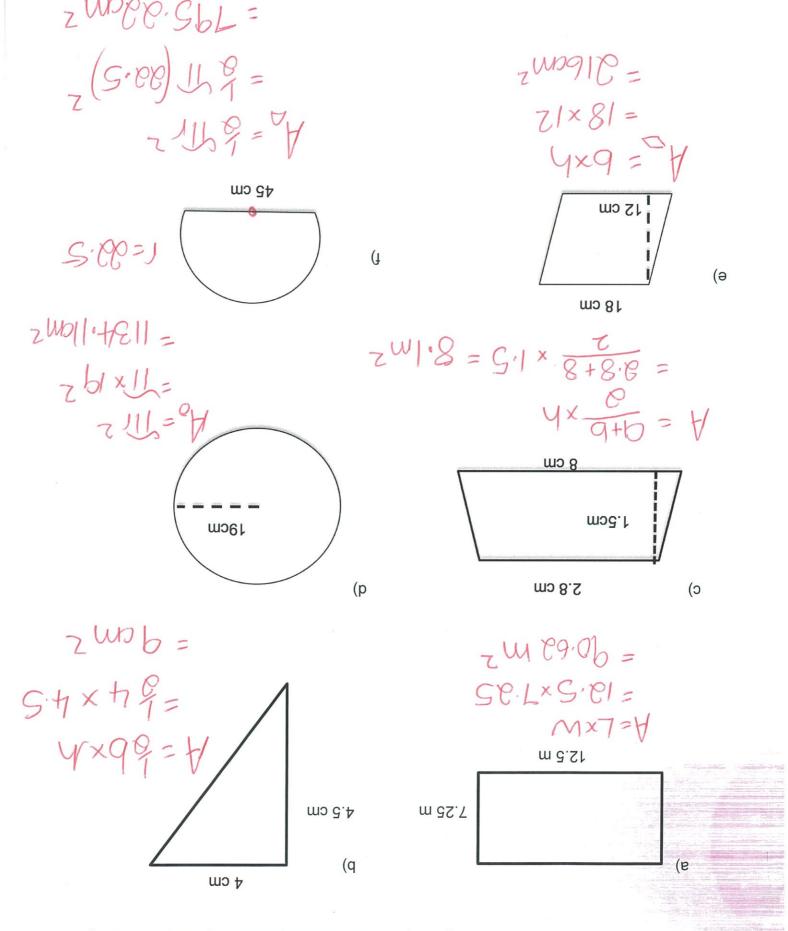


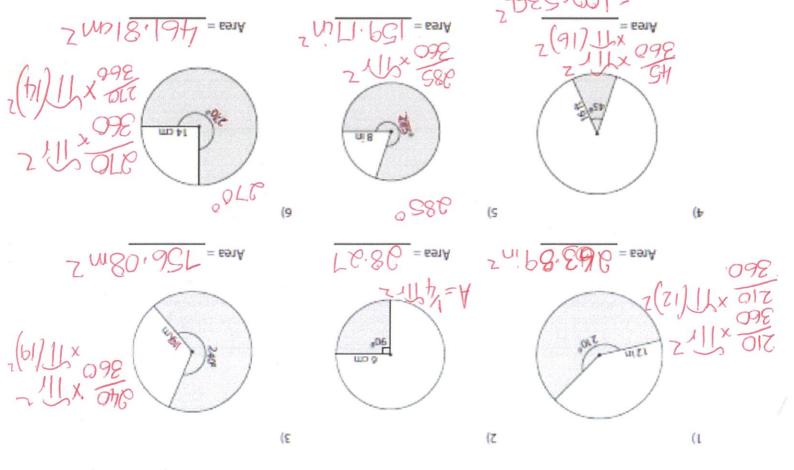
5. Skeeter, the wonder dog, jumps through circular rings as part of his dog show exhibition. Skeeter requires a width of 45cm for his costume to clear the ring. Will a ring with an inner circumference of 100cm inches be large enough for Skeeter's act?



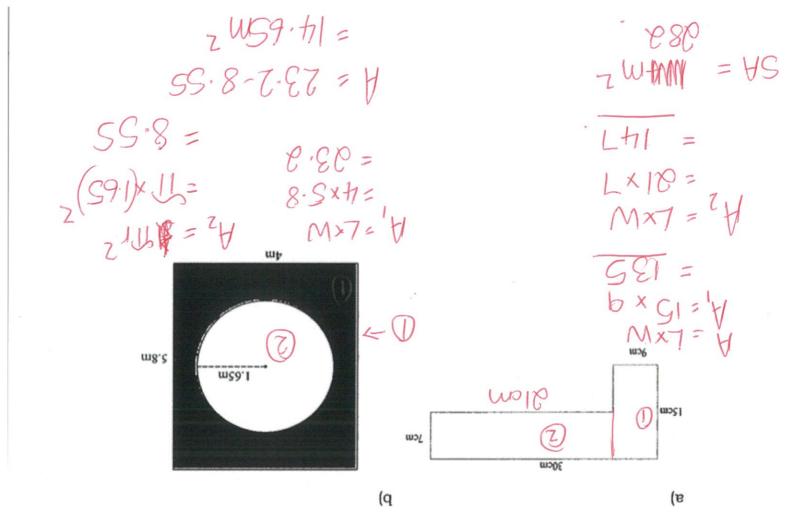
Mo Less 141cm.

## 6. Calculate the area of the following shapes to 2 decimal places. (2,2,2,2,3 Marks)





8. Determine the area of the following shaded shapes. (3,4 marks)



~ W9+11= 45 Mx7= EA 22 cm 13.5 cm 809= 2× 490 = 0.12 m 71 \*CP= MX7=74 ZWL0.88 wg.0=1 18.35 I.2m 5.6 X 2(9.0) 1h= LL.8 = (q G·LE = S×G·L= M×7 = + tom. (2) Bem 7.5cm gcm 08 = 5. Lx 7= BY (2) PLEASE SHOW ALL WORKING (3,3,2 Marks) 9. Calculate the surface area of the shapes below.

10. A box needs to be covered in brown paper for mailing. If the box measures 3meters by 2 meters feet by 1.5 meters, what is the surface area of the box that will need to be covered assuming the box is closed?

( 3 Marks)

 $7 \times S \cdot Y = 7 \times 9 =$ 

11. A soup can has a diameter of 8 cm and a height of 10.5 cm. How much metal is needed to make the can?

12. For a project, Kenneth has to cover all sides of a square based pyramid with cloth (excluding the base). The pyramid has the dimensions shown below. How much cloth will Kenneth need to cover the sides of the pyramid?

081= 2 × 0b = C1 × 517= 4 × 9== EH



12cm

