

$$\sqrt{6^2 + 3^2} = 1p2$$

$$\sqrt{45} = 3\sqrt{5}$$

$$(0, 6)$$

$$(3, 0)$$

(vii)  $p$  and  $q$  are the points at which the line  $2x + y = 6$  intersects the axes. Calculate  $|pq|$ .

$$x^2 + y^2 = 5^2$$

(viii) The points  $(-5, 0)$ ,  $(0, 5)$ ,  $(5, 0)$  are on a circle. Write out the equation of the circle.

(ix) The area of the smaller of the two triangles shown is  $\frac{1}{2}$ . Calculate the area of the larger.



$$\frac{1}{2} \times 3 \times 2 = \frac{3}{2}$$

$$\frac{1}{2} \times 6 \times 4 = 12$$

$$6 \times 4 \times \frac{1}{2} = 12$$

(x) If  $16\vec{i} + 19\vec{j} = 3(a\vec{i} + b\vec{j}) + (\vec{i} + 2\vec{j})$  find the value of  $a$  and the value of  $b$ .

$$= (3a + 1)\vec{i} + (3b + 2)\vec{j}$$

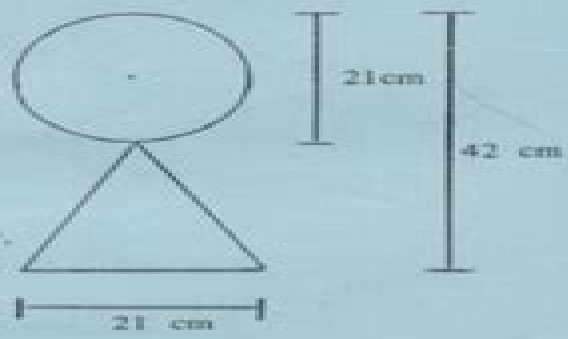
$$a = 5$$

$$b = 2$$

2. A team trophy for a football match is a cone supporting a sphere.

Calculate (taking  $\pi = \frac{22}{7}$ ) the volume of

- (i) the cone
- (ii) the sphere
- (iii) the smallest cylindrical box which will contain the trophy.



Each person on the team is to receive a replica of the trophy, each measurement of which is one seventh the original.

Calculate the volume of the smallest cylindrical box which will contain the replica.

Calculate the ratio  $\frac{\text{Volume of team trophy box}}{\text{Volume of replica box}}$ .

3. (i) Prove that the measure of the angle at the centre of a circle is twice the measure of an angle at the circle standing on the same arc.

(ii)  $p, q, r, s$  are four points on a circle. Prove  $\angle pqr + \angle qsr = 180^\circ$ .



(iii) Points  $t$  and  $l$  are on a circle, centre  $k$ .  $m$  is a point such that  $|mk| < |kl|$ . Prove  $\angle tkl < 2 \angle tmk$ .



# Junior Cert Maths Papers Past

**AW Chickering**



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