

# MATHEMATICS GRADE 9

Name: \_\_\_\_\_ No. \_\_\_\_ Grade 9/\_\_\_\_

## MATHEMATICAL SKILLS INVOLVING AREAS AND VOLUMES

Match column A with column B.

### Measuring Areas

- Areas are measured by standard-sized squares.

A	B
1. The area of a square	a. = $base \times height$
2. The area of a rectangle	b. = $\frac{1}{2} \times base \times height$
3. The area of a triangle	c. = $(side)^2$
4. The area of a parallelogram	d. = $length \times width$
5. The area of a trapezium	e. = $4\pi(radius)^2$
6. The area of a circle	f. = $\frac{1}{2}(sum\ of\ parallel\ side) \times height$
7. The area of a sphere	g. = $\pi(radius)^2$

### Measuring Volumes

- Volumes are measured by standard-sized cubes.

A	B
1. The volume of a prism	a. = $\frac{4}{3}\pi(radius)^3$
2. The volume of a pyramid	b. = $\pi(radius)^2 \times height$
3. The volume of a cylinder	c. = $area\ of\ cross - section \times length$
4. The volume of a cone	d. = $\frac{1}{3}(area\ of\ the\ base) \times height$
5. The volume of a sphere	e. = $\frac{1}{3} \times \pi (radius)^2 \times height$