



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

1. The area of a square
2. The area of a rectangle
3. The area of a triangle
4. The area of a parallelogram
5. The area of a trapezium
6. The area of a circle
7. The area of a sphere

B

- a. $= \text{base} \times \text{height}$
- b. $= \frac{1}{2} \times \text{base} \times \text{height}$
- c. $= (\text{side})^2$
- d. $= \text{length} \times \text{width}$
- e. $= 4\pi(\text{radius})^2$
- f. $= \frac{1}{2}(\text{sum of parallel side}) \times \text{height}$
- g. $= \pi(\text{radius})^2$

Measuring Volumes

- Volumes are measured by standard-sized cubes.

A

1. The volume of a prism
2. The volume of a pyramid
3. The volume of a cylinder
4. The volume of a cone
5. The volume of a sphere

B

- a. $= \frac{4}{3}\pi(\text{radius})^3$
- b. $= \pi(\text{radius})^2 \times \text{height}$
- c. $= \text{area of cross-section} \times \text{length}$
- d. $= \frac{1}{3}(\text{area of the base}) \times \text{height}$
- e. $= \frac{1}{3} \times \pi (\text{radius})^2 \times \text{height}$

