



Name.....

1. Vertical and Adjacent Angles

Two vertical angles are labeled $3x + 10$ and $4x - 15$. What is x ?

- A. 15
- B. 25
- C. 30
- D. 20

2. Complementary Angles

One angle measures 35° . What is its complement?

- A. 45°
- B. 65°
- C. 55°
- D. 145°

3. Supplementary Angles

Two supplementary angles are in the ratio 2:3. What is the larger angle?

- A. 108°
- B. 72°
- C. 90°
- D. 120°

4. Vertical and Adjacent Angles

Adjacent angles measure $x + 20$ and $2x + 10$ and form a straight line. Find x .

- A. 40
- B. 60
- C. 70
- D. 50

5. Scale Drawing

A map scale is 1 cm : 5 km. If two cities are 8 cm apart on the map, what is the actual distance?

- A. 20 km
- B. 40 km
- C. 35 km
- D. 45 km



Grade 7 Advanced – Mock Exam 1

Name.....

6. Surface Area of a Rectangular Prism

What is the surface area of a rectangular prism with length 6 cm, width 4 cm, and height 3 cm?

- A. 72 cm^2
- B. 120 cm^2
- C. 108 cm^2
- D. 96 cm^2

7. Volume of a Rectangular Prism

What is the volume of a rectangular prism with dimensions 5 cm, 4 cm, and 3 cm?

- A. 60 cm^3
- B. 12 cm^3
- C. 20 cm^3
- D. 120 cm^3

8. Volume of a Pyramid

A pyramid has a base area of 36 cm^2 and a height of 9 cm. What is its volume?

- A. 324 cm^3
- B. 54 cm^3
- C. 72 cm^3
- D. 108 cm^3

9. Surface Area

A cube has a surface area of 150 cm^2 . What is the area of one face?

- A. 20 cm^2
- B. 25 cm^2
- C. 15 cm^2
- D. 30 cm^2

10. Composite Figures

A solid is made of two cubes, each with a volume of 27 cm^3 . What is the total volume?

- A. 27 cm^3
- B. 81 cm^3
- C. 54 cm^3
- D. 108 cm^3