

Chapter 7 Prerequisite Skills

Operations With Fractions

1. Simplify each of the following. Express your answers as fractions reduced to lowest terms.

a) $2\frac{1}{4} + 3\frac{1}{2}$

b) $5\frac{3}{8} - 1\frac{3}{4}$

c) $9\frac{1}{4} - 7\frac{9}{16}$

d) $4\frac{3}{4} + 2\frac{5}{16}$

2. Simplify each of the following. Express your answers as fractions reduced to lowest terms.

a) $6\frac{3}{8} \times 1\frac{1}{2}$

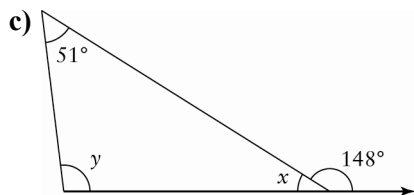
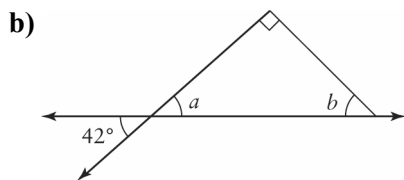
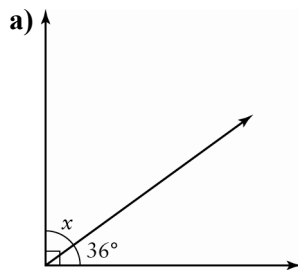
b) $3\frac{1}{4} \div \frac{11}{16}$

c) $10\frac{5}{8} - \left(2\frac{3}{4} + 5\frac{5}{16}\right)$

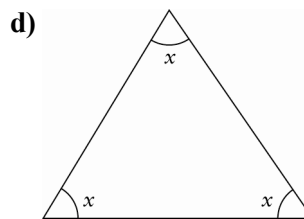
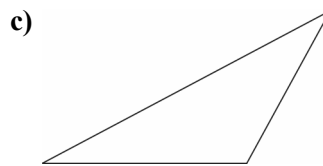
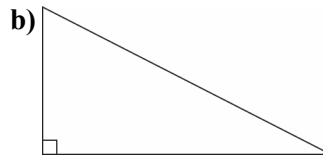
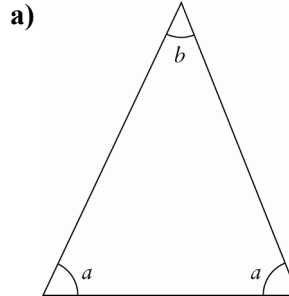
d) $12\frac{1}{4} \times 3\frac{1}{8} \div 7\frac{7}{8}$

Angle Properties

3. Determine the values of the unknown angles.



4. Classify each triangle according to angle properties.



Polygons

5. The sum of the angles, in degrees, of a polygon with n sides is given by the formula $S = 180(n - 2)$. If the polygon is regular, the measure of each angle is equal to the sum divided by n . Determine the sum of the angles and the measure of each angle in a regular hexagon.

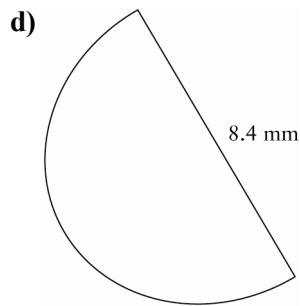
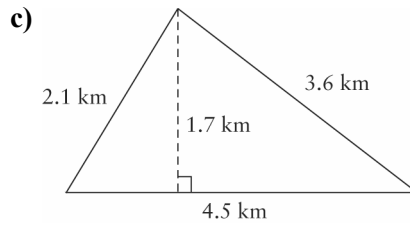
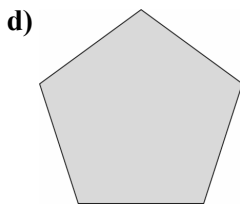
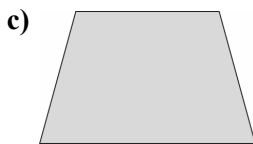
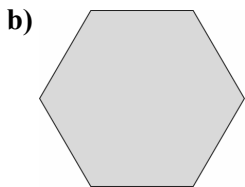
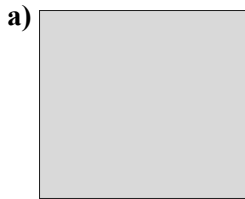


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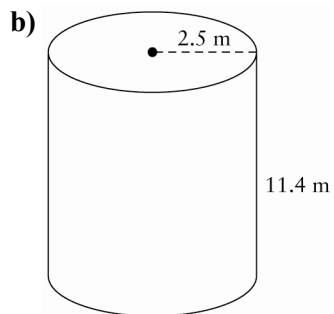
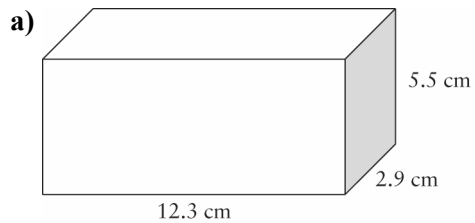
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6. Identify each polygon.



8. Determine the total surface area and volume of each shape, to the nearest tenth of a unit.



Perimeter, Circumference, Area, and Volume

7. For each figure, determine the perimeter (or circumference) and the area, to the nearest tenth of a unit.

