Use the following formulas for numbers 1-8. Each formula is used once.

$$I = Prt \qquad A = \frac{1}{2}(b_1 + b_2)h \qquad F = \frac{9}{5}C + 32 \qquad P = 2l + 2w$$

$$A = \frac{1}{2}bh \qquad A = \pi r^2 \qquad C = 2\pi r \qquad d = rt$$

1) The formula for the perimeter of a rectangle is _____. Solve for w.

2) The distance formula is _____. Solve for r.

3) The temperature formula is _____. Solve for C.

4) The formula for the area of a triangle is _____. Solve for b.

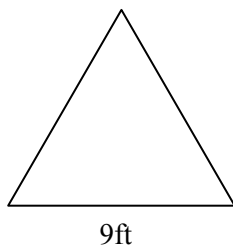5) The formula for simple interest is _____. Solve for r.

6) The formula for the area of a circle is _____. Solve for r.

7) The formula for the circumference of a circle is _____. Solve for r.

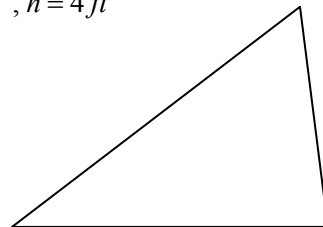8) The formula for the area of a trapezoid is _____. Solve for h.

Find the missing part of each triangle.

9) $A = 27cm^2$

9ft

$h =$ _____

10) $A = 18\,ft^2, h = 4\,ft$

$b =$ _____

Answer Key

1) $P = 2l + 2w;\ w = \dfrac{P - 2l}{2}$

2) $d = rt;\ r = \dfrac{d}{t}$

3) $F = \dfrac{9}{5}C + 32;\ C = \dfrac{5}{9}(F - 32)$

4) $A = \dfrac{1}{2}bh;\ b = \dfrac{2A}{h}$

5) $I = Prt;\ r = \dfrac{I}{Pt}$

6) $A = \pi r^2;\ r = \sqrt{\dfrac{A}{\pi}}$

7) $C = 2\pi r;\ r = \dfrac{C}{2\pi}$

8) $A = \dfrac{1}{2}(b_1 + b_2)h;\ h = \dfrac{2A}{b_1 + b_2}$

9) 6ft

10) 9ft