* A proportion is a relationship (equation) that links 2 ratios or 2 rates that are equilavent.
ex. $\frac{5}{10}=\frac{50}{100} \quad \frac{60 \text { beats }}{3 \mathrm{~min}}=\frac{20 \text { beats }}{1 \mathrm{~min}}$
* To solve proportions choose a method:
(1) Cross - multiply and divide
(2) Find a "multiplier"
(3) Find the unit rate, then multiply (useful for word problems with rates)

Ex. Find the missing number:
a)

$$
\frac{15}{80}=\frac{3}{?}
$$

b)


$$
80 \times 3 \div 15=16
$$

$$
25 \times 12 \div 70=4.3 \text { Or } 4.29
$$

Ex. There are 72 soccer players on 8 teams. How many soccer players are on (3) teams?

Method $0 \quad C M+D$


$$
72 \times 3 \div 8=27 \text { players }
$$ per 3 teams

Method (2) Find unit rate

$$
\frac{72 P}{8 T \div 8} \div \frac{9 P}{1 T} \times 3=\frac{27 P}{2 T}
$$

$$
\frac{72 r}{8 T \div 8} \div \frac{4 r}{1 T} \times 3=\frac{\alpha 1 \Gamma}{3 T}-
$$

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