1) Solve the following proportions using the “cross-multiplication” method. Show the calculation you make for full marks. ➁ each

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a) $\frac{a}{9}=\frac{7}{2}$ b) $\frac{12}{a}=\frac{10}{31}$ c) $\frac{7.5}{2.5}=\frac{b}{14}$

d) $\frac{x}{4.4}=\frac{11}{2}$ e) $\frac{1200}{y}=\frac{15}{23}$ f) $\frac{3}{2.4}=\frac{f}{36}$

Use your conversion table from our note to help with remaining questions:

2) Asher’s track coach has instructed him to do a 3.5-mile run. To visualize how far that is, Asher wants to convert this into yards. Which of the following set-ups could be correct? **Choose the correct one, and finish solving.** ➁

$\frac{miles}{yards}=\frac{1}{1760}=\frac{3.5}{x}$ OR $\frac{miles}{yards}=\frac{1760}{1}=\frac{3.5}{x}$

3) One of Edwin Encarnacion’s longest homeruns last season was 460 feet. How far is this in yards? Like the last question, one of these setups is correct. **Choose the correct one, and finish solving**. ➁

$\frac{feet}{yards}=\frac{3}{1}=\frac{460}{x}$ OR $\frac{yards}{feet}=\frac{1}{3}=\frac{460}{x}$

4) When eating red meat, nutritionists advice having a 4 oz serving. How much is that in pounds? Again, **choose the correct setup, and finish solving.** ➁

$\frac{oz}{lbs}=\frac{1}{16}=\frac{4}{x}$ OR $\frac{oz}{lbs}=\frac{16}{1}=\frac{4}{x}$

5) You try converting the following imperial measures. Set up a proportion like the previous questions. ➁ each.

a) Convert 5.5 gallons into quarts b) Convert 20 fluid ounces into pints

6) Mr. Smith’s best throw with his Destroyer disc 350 feet. How many yards is this? ➁

7) A typical marathon is 26.2 miles. How many feet is this? Note: You will need to convert to yards first, and then feet. ➂