5 less than a # is 8.

$N - 5 = 8$
$+5 \quad +5$

$N = 13$

5 less than 13 is 8 ✓

Sep 13-2:05 PM

Jan ran 2.4 mi
This is 2/3 of what Jim ran.
Which equation is true?

~~A. $2.4 + x = 2/3$~~ B. $2x = 7.2$
C. $3x = 4.8$ D. $2/3 + x = 2.4$

$2.4 \div 2 = 1.2$ mi is 1/3

$\frac{3}{3}$ or 1 whole $= 3 \cdot 1.2 = 3.6$

$x = 3.6$
$2x = 7.2$

Sep 13-12:59 PM

Jan ran 2.4 mi
This is 2/3 of what Jim ran.
Which equation is true?

~~A. $2.4 + x = 2/3$~~ B. $2x = 7.2$
C. $3x = 4.8$ ~~D. $2/3 + x = 2.4$~~

2.4 is 2/3 of Jim

$2.4 = 2/3 \cdot x$
$\div 2/3 \quad \div 2/3$

$\frac{7.2}{2} = x$
$\cdot 2 \quad \cdot 2$

$7.2 = 2x$

$2.4 \div 2/3$
KFR
$2.4 \cdot \frac{3}{2}$

$2.4 \div 2 = 1.2$ which is 1/3
$1.2 * 3 = 3.6$
so $x = 3.6$
$2x = 7.2$

Sep 13-12:59 PM

$\frac{b \cdot 2}{6 \cdot 2} - \frac{5 \cdot 1}{12 \cdot 1} = \frac{10 \cdot 4}{3 \cdot 4}$

*need a common denominator
*use 12
*multiply top & bottom by same #

$\frac{2b}{12} - \frac{5}{12} = \frac{40}{12}$

*denominators are same, so ignore them & solve the numerator

$2b - 5 = 40$
$+5 \quad +5$

$\frac{2b}{2} = \frac{45}{2}$

$b = \frac{45}{2} = 22\frac{1}{2} = 22.5$

Sep 13-1:09 PM

$$\frac{b \cdot 2}{6 \cdot 2} - \frac{5 \cdot 1}{12 \cdot 1} = \frac{10 \cdot 4}{3 \cdot 4}$$

*need common denominator

$$\frac{2b}{12} - \frac{5}{12} = \frac{40}{12}$$

*if denominators are the same, set "tops" equal :)

$$2b - 5 = 40$$
$$+5 \quad +5$$
$$\frac{2b}{2} = \frac{45}{2}$$

*Solve

$$\boxed{b = 45/2 = 22\tfrac{1}{2} = 22.5}$$

Sep 13-1:09 PM