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YOUR TURN

Determine whether each pair of ratios forms a proportion. Write yes or no.

1. $\frac{17}{10} \stackrel{?}{=} \frac{12}{5}$ — no — $10 \cdot 12 = 17 \cdot 5$, $120 \neq 210$

2. $\frac{6}{9} \stackrel{?}{=} \frac{12}{18}$ — yes — $9 \cdot 12 = 6 \cdot 18$, $108 = 108$

3. $\frac{8}{12} \stackrel{?}{=} \frac{10}{15}$ — yes — $12 \cdot 10 = 8 \cdot 15$, $120 = 120$

4. $\frac{7}{15} \stackrel{?}{=} \frac{12}{32}$ — no — $15 \cdot 12 = 7 \cdot 32$, $180 \neq 224$

5. $\frac{7}{9} \stackrel{?}{=} \frac{49}{63}$ — yes — $9 \cdot 49 = 7 \cdot 63$, $441 = 441$

6. $\frac{8}{24} \stackrel{?}{=} \frac{12}{28}$ — no — $24 \cdot 12 = 8 \cdot 28$, $288 \neq 224$

Solve each proportion.

10. $\frac{x}{5} = \frac{12}{25}$

$5 \cdot 12 = x \cdot 25$

$\frac{60}{25} = \frac{25x}{25}$

$2.4 = x$

11. $\frac{3}{4} = \frac{12}{c}$

$4 \cdot 12 = 3 \cdot c$

$\frac{48}{3} = \frac{3c}{3}$

$16 = c$

12. $\frac{6}{9} = \frac{10}{r}$

$9 \cdot 10 = 6 \cdot r$

$\frac{90}{6} = \frac{6r}{6}$

$15 = r$

13. $\frac{16}{24} = \frac{z}{15}$

$24 \cdot z = 16 \cdot 15$

$\frac{24z}{24} = \frac{240}{24}$

$z = 10$

14. $\frac{w}{6} = \frac{2.8}{7}$

$6 \cdot 2.8 = w \cdot 7$

$\frac{16.8}{7} = \frac{7w}{7}$

$2.4 = w$

15. $\frac{5}{y} = \frac{7}{16.8}$

$y \cdot 7 = 5 \cdot 16.8$

$\frac{7y}{7} = \frac{84}{7}$

$y = 12$