

Is it a Proportion?

7th Grade Math

Name: key

Are the following examples of proportional relationships? **Explain why.**

1) $\frac{10}{4} = \frac{50}{20}$

?
 $10 \cdot 20 = 4 \cdot 50$
 $200 = 200 \checkmark$
Yes

2) $\frac{9}{2} = \frac{14}{3}$

?
 $9 \cdot 3 = 2 \cdot 14$
 $27 \neq 28$
No

3) $\frac{5}{32} = \frac{3}{20}$

?
 $20 \cdot 5 = 32 \cdot 3$
 $100 \neq 96$
No

4) $\frac{5}{30} = \frac{2}{12}$

?
 $5 \cdot 12 = 30 \cdot 2$
 $60 = 60 \checkmark$
Yes

5) $\frac{9}{6} = \frac{12}{8}$

?
 $9 \cdot 8 = 6 \cdot 12$
 $72 = 72 \checkmark$
Yes

6) $\frac{1}{9} = \frac{8}{30}$

?
 $30 \cdot 1 = 9 \cdot 8$
 $30 \neq 72$
No

7) $\frac{14}{6} = \frac{7}{3}$

?
 $14 \cdot 3 = 7 \cdot 6$
 $42 = 42 \checkmark$
Yes

8) $\frac{11}{5} = \frac{9}{4}$

?
 $11 \cdot 4 = 5 \cdot 9$
 $44 \neq 45$
No