2.6A Worksheet

Name Key

Tell whether or not the ratio is in simplest form. If not, write it in simplest form.

1. 14 to 18

$$3.\frac{24}{25}$$

$$\frac{28}{32} = \boxed{\frac{7}{8}}$$

Solve the proportion.

$$5.35 \cdot \frac{2}{5} = \frac{x}{5} \cdot \frac{15}{5}$$

6.
$$\frac{c}{8} = \frac{11}{4} \cdot \frac{82}{7}$$

7.
$$\frac{12}{1} \frac{36}{12} = \frac{x}{12} \cdot \frac{12}{1}$$

8.
$$\frac{321}{1} \cdot \frac{16}{1} = \frac{m}{21} \cdot \frac{21}{1}$$

$$m = 48$$

9.
$$\frac{218}{1} \cdot \frac{k}{9} = \frac{10}{18} \cdot \frac{18}{1}$$

$$10.\frac{3}{1}.\frac{24}{8} = \frac{t}{24}.\frac{24}{1}$$

Write the sentence as a proportion. Then solve the proportion.

11. 3 is to 8 as x is to 32

12. 5 is to 7 as a is to 49

13. y is to 20 as 9 is to 5

Solve the proportion. $15.\frac{36}{15} = \frac{2x}{18} \cdot 432.54$

$$\chi = \frac{8}{3}$$

 $\frac{3}{17.80}, \frac{6r}{10} = \frac{36}{15}, \frac{30}{1}$

$$\frac{18r}{18} = \frac{72}{18}$$

 $19.\frac{39}{1} \cdot \frac{5}{13} = \frac{k-4}{39}$

14. t is to 21 as 40 is to 28.

2858 . t = 40.58821

$$\frac{28t}{28} = \frac{840}{28}$$

 $16.\frac{3}{1} \cdot \frac{3a}{4} = \frac{36}{12} \cdot \frac{12}{1}$

 $18. \frac{1}{4} \cdot \frac{m+3}{8} = \frac{40}{64} \frac{64}{1}$

8(m+3) = 40

 $20\frac{3}{1} \cdot \frac{6+n}{60} = \frac{15}{90} \cdot \frac{180}{1} = \frac{2}{1}$

$$-1/8 + 3n = 30$$

21. There are 435 representatives in the U.S. House of Representatives. Of the 435 representatives, 6 are from Kentucky. Find the ratio of the number of representatives from Kentucky to the total number of representatives.

22. A student can read 7 pages of a book in 10 minutes. How many pages of the book can the student read in 30 minutes?

$$\frac{336}{1}$$
 $\frac{7}{101}$ $\frac{1}{30}$ $\frac{3}{1}$ $\frac{3}{1}$

23. In the first 4 games of the season, a soccer team scored a total of 10 goals. If this trend continues, how many goals will the team score in the remaining 18 games?

$$\frac{169.4}{4} = \frac{18}{9}.9$$
 $\frac{49}{4} = \frac{180}{4}$
 $9 = 45 \text{ goals}$