Reducing Fractions

Reduce each fraction to its lowest terms. Each row has a theme. See if you can find it.

1)	$\frac{8}{12}$	2)	$\frac{8}{20}$	3)	$\frac{12}{16}$
4)	$\frac{15}{20}$	5)	$\frac{25}{35}$	6)	$\frac{20}{35}$
7)	$\frac{20}{30}$	8)	$\frac{50}{70}$	9)	$\frac{30}{60}$
10)	$\frac{13}{26}$	11)	$\frac{8}{24}$	12)	$\frac{9}{36}$
13)	$\frac{10}{10}$	14)	$\frac{20}{20}$	15)	$\frac{101}{101}$
16)	$\frac{24}{28}$	17)	$\frac{16}{30}$	18)	$\frac{48}{72}$
19)	$\frac{3}{21}$	20)	$\frac{27}{51}$	21)	$\frac{15}{48}$
22)	$\frac{14}{42}$	23)	$\frac{35}{42}$	24)	$\frac{21}{35}$

Word Problems

Note: Lowest terms and simplest form mean the same thing.

25) Reduce $^{4}/_{12}$ to its lowest terms.

26) Write $^{15}/_{25}$ in its lowest terms.

27) Reduce $^{12}/_{20}$ to its simplest form.

28) Reduce $^{12}/_{16}$ to its simplest form by dividing by 2 twice.

29) Margie is looking at fractions. She is undecided between $^{3}/_{5}$ and $^{5}/_{10}$. Which one is in its simplest form?

30) Roger wants a more complicated fraction. He is looking at $^{16}/_{20}$ and $^{7}/_{8}$. Which is NOT in its lowest terms?

31) Which fraction can be reduced in two steps: $^{3}/_{9}$, $^{14}/_{21}$ or $^{15}/_{30}$?

32) Marisa is taking stock of her pumpkin bread. Each loaf can be cut into 20 pieces. She has 15 pieces. What fraction of a loaf does she have?

33) Howard is helping Marisa. He is looking at banana bread. These loaves can be cut into 18 pieces. If he has 20 pieces, how many loaves does he have?

34) Randy is reducing his new fraction: $^{24}/_{30}$. He first divides by 2. What does he need to divide by to finish reducing?

35) Rhoda and Rhonda are arguing over the fraction $^{9}/_{18}$. Rhoda thinks it equals $^{1}/_{3}$. Rhonda thinks it equals ½. Who, if either, is right? What does the fraction equal if they are wrong?

36) Rhoda and Rhonda are now arguing over $^{18}/_{24}$. Rhoda thinks it equals $^{2}/_{3}$. Rhonda is favoring ½, again. Who, if any, is right? What does the fraction equal if they are wrong?

Answers

First row theme: Divide by 4

1) $\frac{2}{3}$ 2) $\frac{2}{5}$ 3) ¾

Second row theme: Divide by 5

4) ¾ 5) $\frac{5}{7}$ 6) $\frac{4}{7}$

Third row theme: Divide by 10 or cancel out zeroes

7) $\frac{2}{3}$ 8) $\frac{5}{7}$ 9) ½

Fourth row theme: Divide by the top number

10) ½ 11) $\frac{1}{3}$ 12) ¼

Fifth row theme: Top equals bottom

13) 1 14) 1 15) 1

Sixth row theme: Divide by two one or more times

16) $\frac{6}{7}$ 17) $\frac{8}{15}$ 18) $\frac{2}{3}$

Seventh row theme: Divide by 3

19) $\frac{1}{7}$ 20) $\frac{9}{13}$ 21) $\frac{5}{16}$

Eighth row theme: Divide by 7

22) $\frac{1}{3}$ 23) $\frac{5}{6}$ 24) $\frac{3}{5}$

Word problems

25) $\frac{1}{3}$
26) $\frac{3}{5}$
27) $\frac{3}{5}$
28) $\frac{6}{8}$, ¾
29) $\frac{3}{5}$
30) $\frac{16}{20}$
31) $\frac{15}{30}$
32) $\frac{15}{20}$ = ¾
33) $\frac{10}{9}$ or $1\ \frac{1}{9}$
34) 3
35) Rhonda
36) Neither