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Section 4.2 Extra Practice

For #1 to #3:

a) *Rewrite the fraction as a division expression.*
b) *Use a calculator to convert the fraction to a decimal number.*
c) *Round the decimal to the nearest thousandth.*
d) *Multiply the decimal by 100 to convert to a percent.*

	Division Expression	Decimal	Round to Nearest Thousandth	Percent
Example: $\frac{13}{18}$	**a)** 13 ÷ 18	**b)** 0.72222222	**c)** 0.722	**d)** 0.722 × 100% = 72.2%
1. $\frac{11}{12}$				
2. $\frac{15}{42}$				
3. $\frac{324}{365}$				

For #4 to #7, use a calculator to change each fraction to a repeating decimal. Show the answer in two ways.

Examples: $\frac{1}{3} = 0.33333... = 0.\overline{3}$ $\frac{3}{11} = 0.272727... = 0.\overline{27}$

4. $\frac{2}{3}$ _____ **5.** $\frac{5}{9}$ _____

6. $\frac{1}{13}$ _____ **7.** $\frac{3}{7}$ _____

For #8 to #11, calculate the following percents of each number:

a) *50%* ***b)*** *10%* ***c)*** *60%* ***d)*** *30%*

Note: c) *and* ***d)*** *are a combination of* ***a)*** *and* ***b)****.*

	a) 50%	b) 10%	c) 60%	d) 30%
Example: 60	30	6	30 + 6 = 36	30 – 12 = 18 or 6 × 3 = 18
8. 40				
9. 90				
10. 200				
11. 150				

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(continued)

For #12 to #14, follow the steps to estimate each fraction as a percent.

12. $\frac{46}{80}$

a) 50% of 80 = _____

b) 10% of 80 = _____

c) a) _____ + b) _____ = _____

d) Therefore, $\frac{46}{80}$ is between _____% and _____% but closer to _____%.

13. $\frac{13}{30}$

a) 50% of 30 = _____

b) 10% of 30 = _____

c) a) _____ – b) _____ = _____

d) Therefore, $\frac{13}{30}$ is between _____% and _____% but closer to _____%.

14. $\frac{27}{40}$

a) 50% of 40 = _____

b) 10% of 40 = _____

c) a) _____ + b) _____ + b) _____ = _____

d) Therefore, $\frac{27}{40}$ is between _____% and _____% but closer to _____%.

15. Make up three fractions of your own and estimate each one as a percent as you did in #12 to #14.