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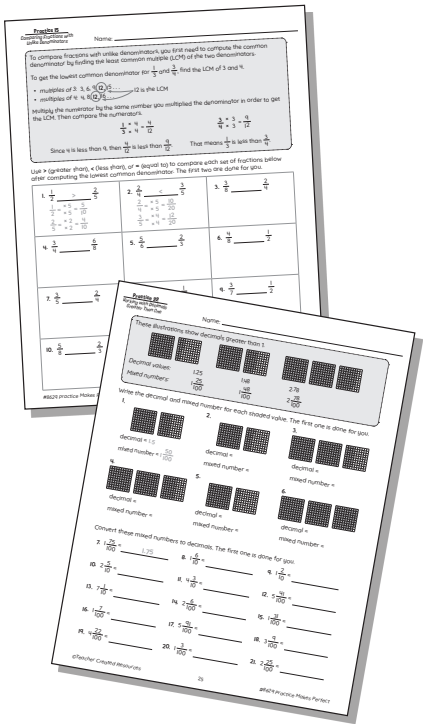
Introduction

The old adage "practice makes perfect" can really hold true for your child and their education. The more practice and exposure your child has with concepts being taught in school, the more success they are likely to find. For many parents, knowing how to help your child can be frustrating because the resources may not be readily available and math textbooks can be more confusing than helpful. As a parent it is also difficult to know where to focus your efforts so that the extra practice your child receives at home supports what they are learning in school.

This book has been designed to help parents and teachers reinforce basic skills with their children. *Practice Makes Perfect* reviews basic math skills in grade 4. The math focus is on fractions, decimals, and percents. These interrelated concepts are often difficult for even very capable students to grasp. While it would be impossible to include all math concepts taught in grade 4 in this book, the following basic objectives are reinforced through practice exercises arranged in a logical, sequential, and easy-to-use format:

- equivalent fractions
- adding and subtracting fractions and decimals
- converting fractions, decimals, and percents
- working with mixed numbers and improper fractions
- computing common denominators
- comparing and ordering fractions and decimals
- computing percents
- reducing fractions
- operations with money

Inside this Resource



Practice Pages (pages 4 to 39)—There are 36 practice pages organized sequentially so that children can build their knowledge from more basic skills to higher-level math skills.

Practice Tests (pages 40–45)—These 6 mixed-skills practice tests are given in a multiple-choice format designed to prepare students for the standardized tests administered in schools.

Answer Sheet (page 46)—This optional sheet provides a similar format to those found on standardized tests. This "bubble-in" answer sheet can be used in the classroom or at home.

Answer Key (pages 47–48)—This comprehensive key provides the answers for all of the practice pages and the practice tests.

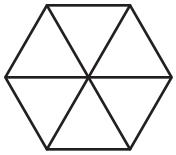
Helpful Tips

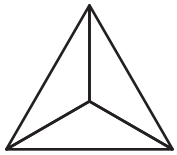
- Keep practice sessions short, positive, and constructive.
- Help with instructions. Consider asking your child to underline or repeat what they are being asked to find or solve.
- Provide extra guidance and support in the areas in which your child is struggling. Look for ways to apply these skills to real-life situations.

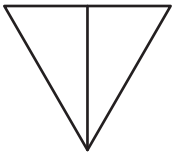
Name: _____

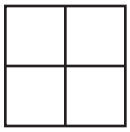
Tell how many parts each figure is divided into. Write your answer next to each shape.

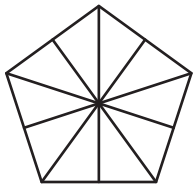
1.

2. 

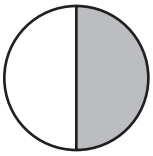
3. 

4. 

5. 

6. 

Write a fraction for the **shaded** part of each figure. Write your answers next to the shapes.

7. 

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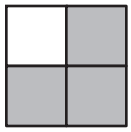
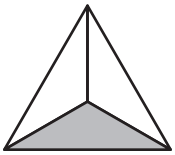
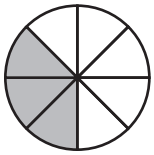
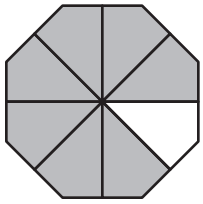
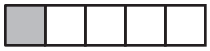
9. 

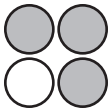
10. 

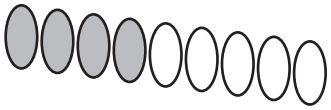
11. 

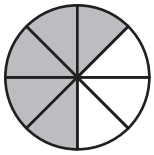
12. 

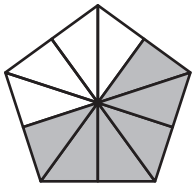
Next to each figure, write the fraction that tells how much of it is **not shaded**.

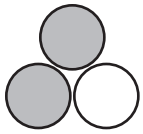
13. 

14. 

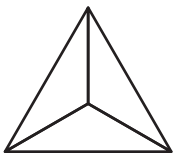
15. 

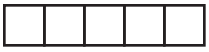
16. 

17. 

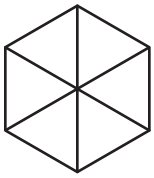
18. 

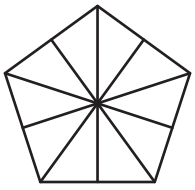
On the figures below, shade in the amount named by each fraction.

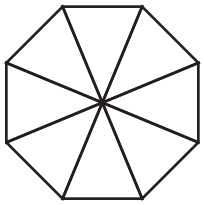
19. $\frac{1}{3}$ 

20. $\frac{4}{5}$ 

21. $\frac{4}{9}$

22. $\frac{4}{6}$ 

23. $\frac{7}{10}$ 

24. $\frac{5}{8}$ 

Practice 15

Comparing Fractions with Unlike Denominators

Name: _____

To compare fractions with unlike denominators, you first need to compute the common denominator by finding the least common multiple (LCM) of the two denominators.

To get the lowest common denominator for $\frac{1}{3}$ and $\frac{3}{4}$, find the LCM of 3 and 4.

- *multiples of 3:* 3, 6, 9, **12,** 15 . . .
- *multiples of 4:* 4, 8, **12,** 16 . . .

12 is the LCM

Multiply the numerator by the same number you multiplied the denominator in order to get the LCM. Then compare the numerators.

$$\frac{\mathbf{1}}{\mathbf{3}} \times \frac{4}{4} = \frac{4}{12} \qquad \frac{\mathbf{3}}{\mathbf{4}} \times \frac{3}{3} = \frac{9}{12}$$

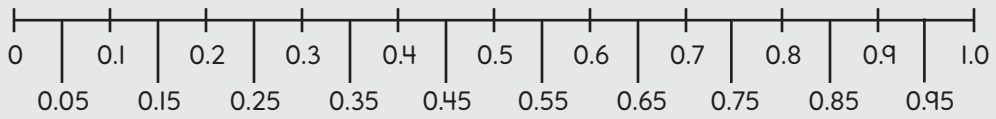
Since 4 is less than 9, then $\frac{4}{12}$ is less than $\frac{9}{12}$. That means $\frac{1}{3}$ is less than $\frac{3}{4}$.

Use **>** (greater than), **<** (less than), or **=** (equal to) to compare each set of fractions below after computing the lowest common denominator. The first two are done for you.

1. $\frac{1}{2}$ **>** $\frac{2}{5}$ $\frac{1}{2} = \frac{\times 5}{\times 5} = \frac{5}{10}$ $\frac{2}{5} = \frac{\times 2}{\times 2} = \frac{4}{10}$	**2.** $\frac{2}{4}$ **<** $\frac{3}{5}$ $\frac{2}{4} = \frac{\times 5}{\times 5} = \frac{10}{20}$ $\frac{3}{5} = \frac{\times 4}{\times 4} = \frac{12}{20}$	**3.** $\frac{3}{8}$ _____ $\frac{2}{4}$
4. $\frac{3}{4}$ _____ $\frac{6}{8}$	**5.** $\frac{5}{6}$ _____ $\frac{2}{3}$	**6.** $\frac{4}{8}$ _____ $\frac{1}{2}$
7. $\frac{3}{5}$ _____ $\frac{2}{4}$	**8.** $\frac{4}{9}$ _____ $\frac{1}{2}$	**9.** $\frac{3}{7}$ _____ $\frac{1}{2}$
10. $\frac{5}{8}$ _____ $\frac{2}{3}$	**11.** $\frac{1}{3}$ _____ $\frac{2}{6}$	**12.** $\frac{4}{12}$ _____ $\frac{1}{4}$

Practice 24
Ordering Decimals

Name: _____



Use the number line above to place these decimals in order from least to greatest. The first two are done for you.

1. 0.05, 0.5, 0.25 — 0.05, 0.25, 0.5

2. 0.75, 0.50, 0.85 — 0.50, 0.75, 0.85

3. 0.65, 0.20, 0.40 — _____

4. 0.81, 0.8, 0.08 — _____

5. 0.63, 0.6, 0.53 — _____

6. 0.04, 0.40, 0.44 — _____

7. 0.96, 0.69, 0.09 — _____

8. 0.35, 0.53, 0.05 — _____

9. 0.89, 0.9, 0.91 — _____

Use the two number lines on this page to help you place these decimals in order from least to greatest. The first two are done for you.

10. 2.1, 0.12, 0.21 — 0.12, 0.21, 2.1

11. 3.63, 4.6, 0.04 — 0.04, 3.63, 4.6

12. 0.34, 0.3, 3.03 — _____

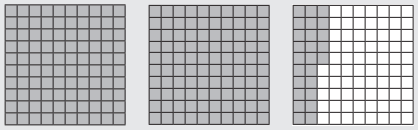
13. 0.08, 0.8, 8.0 — _____

14. 5.81, 5.18, 0.5 — _____

15. 3.18, 0.31, 0.3 — _____

Name: _____

The figure below illustrates 225%.



$225\% = 2.25 = 2\frac{25}{100} = 2\frac{1}{4}$

225% = 2 wholes + $\frac{1}{4}$ of another whole.

To convert to percents over 100, multiply by 100.

With decimals, this moves the decimal point 2 places to the right.

$0.23 = 0.23 \times 100 = 23\%$

With mixed numbers, the whole number becomes the number in the hundreds place. Convert the fraction part of the mixed number by dividing the denominator into 100 and multiplying that answer by the numerator.

$3\frac{1}{4}$ $\quad 300\% + \frac{1}{4} = 300\% + \frac{25}{100} = 325\%$

Write the equivalent percents for these decimals and fractions over 100. The first two are done for you.

1. 2.5 = 250% 2.5 x 100 = 250%	**2.** $1\frac{3}{4}$ = 175% $1\frac{3}{4} = 100\% + \frac{75}{100} = 175\%$	**3.** 2.17 = _____
4. 5.51 = _____	**5.** $1\frac{1}{2}$ = _____	**6.** 3.19 = _____
7. 1.99 = _____	**8.** $4\frac{1}{2}$ = _____	**9.** $3\frac{1}{2}$ = _____
10. $2\frac{1}{5}$ = _____	**11.** 7.01 = _____	**12.** 3.03 = _____
13. 4.0 = _____	**14.** $6\frac{1}{4}$ = _____	**15.** $5\frac{1}{5}$ = _____
16. $1\frac{4}{5}$ = _____	**17.** 1.8 = _____	**18.** 1.08 = _____

Name: _____

Add or subtract the decimals in these problems.

1. 0.45 + 2.7

Ⓐ 2.15
Ⓑ 3.15
Ⓒ 2.35
Ⓓ 2.05

2. 7.68 − 3.79

Ⓐ 3.89
Ⓑ 3.11
Ⓒ 3.99
Ⓓ 4.89

3. 9.9 − 3.72

Ⓐ 6.18
Ⓑ 6.28
Ⓒ 5.18
Ⓓ 13.62

4. 16 − 6.35

Ⓐ 10.35
Ⓑ 9.35
Ⓒ 9.65
Ⓓ 22.35

5. 99.08 − 9.09

Ⓐ 99.99
Ⓑ 89.91
Ⓒ 89.98
Ⓓ 89.99

6. $22.13 − $13.40

Ⓐ $8.33
Ⓑ $8.73
Ⓒ $8.83
Ⓓ $9.73

7. 20.9 + 3.98

Ⓐ 24.98
Ⓑ 17.01
Ⓒ 24.78
Ⓓ 24.88

8. 6.06 + 9.66

Ⓐ 15.76
Ⓑ 15.72
Ⓒ 16.72
Ⓓ 3.63

9. 13 − 11.99

Ⓐ 11.86
Ⓑ 2.99
Ⓒ 1.1
Ⓓ 1.01

10. 2.1 − 1.22

Ⓐ 0.98
Ⓑ 0.8
Ⓒ 0.88
Ⓓ 1.88

11. $7.01 + $4.90

Ⓐ $12.01
Ⓑ $11.10
Ⓒ $11.81
Ⓓ $11.91

12. 101 − 1.01

Ⓐ 102.01
Ⓑ 99.99
Ⓒ 90.99
Ⓓ 100.99

Select the closest estimated sums and differences.

13. $23.50 + $45.76 =

Ⓐ $70 Ⓑ $22
Ⓒ $72 Ⓓ $21

14. 21.7 − 12.2 =

Ⓐ 10 Ⓑ 34
Ⓒ 33 Ⓓ 11

15. $48.05 + $16.09 =

Ⓐ $65 Ⓑ $32
Ⓒ $52 Ⓓ $64

16. 103.44 − 1.34 =

Ⓐ 102 Ⓑ 104
Ⓒ 105 Ⓓ 101

17. 33.01 − 31.00 =

Ⓐ 2 Ⓑ 64
Ⓒ 3 Ⓓ 60

18. 1.18 + 201.0 =

Ⓐ 200 Ⓑ 201
Ⓒ 203 Ⓓ 202

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