

MATHS WIZARD

# Fractions & Decimals

Book 2



TEACH  
YOUR  
CHILDREN  
WELL

Paul Mason Karen Mason



TEACH YOUR CHILDREN WELL

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Published by:  
Teach Your Children Well  
Wauchope NSW 2446 AUSTRALIA

[teachyourchildrenwell.com.au](http://teachyourchildrenwell.com.au)

email: [Paul@teachyourchildrenwell.com.au](mailto:Paul@teachyourchildrenwell.com.au)

[Karen@teachyourchildrenwell.com.au](mailto:Karen@teachyourchildrenwell.com.au)

# Sample Booklet

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[teachyourchildrenwell.com.au](http://teachyourchildrenwell.com.au)

email: [Paul@teachyourchildrenwell.com.au](mailto:Paul@teachyourchildrenwell.com.au)

[Karen@teachyourchildrenwell.com.au](mailto:Karen@teachyourchildrenwell.com.au)

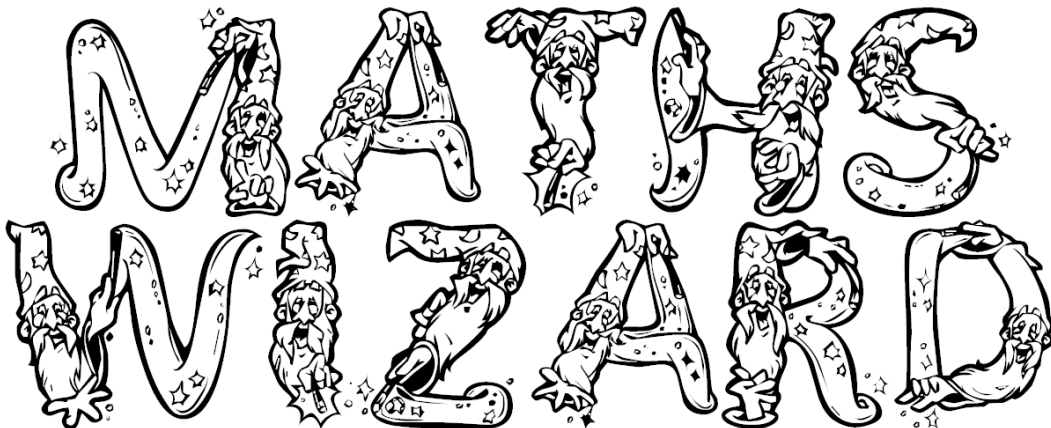
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This booklet is part of the



Series

# Maths Wizard

Pre-test 5 and Post-test 5  
Pre-test 6 and Post-test 6  
Pre-test 7 and Post-test 7  
Pre-test 8 and Post-test 8

Equivalent Fractions  
Simplifying Fractions  
Add & Subtract Fractions  
Multiply & Divide Fractions

Fractions and Decimals 21 - 25

Writing fractions that are equivalent (equal) to others using the following denominators:  
2, 3, 4, 5, 8, 10.

Fractions and Decimals 26 - 30

Simplifying fractions by breaking them down to the lowest common denominator.  
2, 3, 4, 5, 8, 10.

Fractions and Decimals 31 - 35

Adding and subtracting fractions with the following denominators:  
2, 3, 4, 5, 8, 10.

Fractions and Decimals 36 - 40

Multiplying and dividing fractions with the following denominators:  
2, 3, 4, 5, 8, 10.

## Outcomes

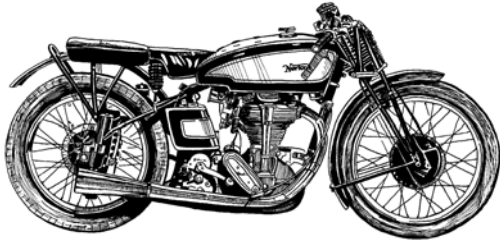
- Compares equivalent fractions.
- Converts fractions to lowest common denominators.
- Adds and subtracts simple fractions.
- Multiplies and divides simple fractions.

Name: \_\_\_\_\_



# Scores

	Correct	Time	Correct	Time
Pre-test 5			Post-test 5	
Pre-test 6			Post-test 6	
Pre-test 7			Post-test 7	
Pre-test 8			Post-test 8	
Worksheet 21			Worksheet 31	
Worksheet 22			Worksheet 32	
Worksheet 23			Worksheet 33	
Worksheet 24			Worksheet 34	
Worksheet 25			Worksheet 35	
Worksheet 26			Worksheet 36	
Worksheet 27			Worksheet 37	
Worksheet 28			Worksheet 38	
Worksheet 29			Worksheet 39	
Worksheet 30			Worksheet 40	



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Equivalent Fractions - Pre test 5

*What is as big as an elephant and weighs nothing at all? An elephants shadow!*

Complete the Activity.

$$\textcircled{1} \quad \frac{5}{10} = \frac{1}{\quad}$$

$$\textcircled{11} \quad \frac{\quad}{50} = \frac{4}{5}$$

$$\textcircled{2} \quad \frac{24}{30} = \frac{8}{\quad}$$

$$\textcircled{12} \quad \frac{24}{48} = \frac{\quad}{8}$$

$$\textcircled{3} \quad \frac{\quad}{24} = \frac{1}{3}$$

$$\textcircled{13} \quad \frac{27}{72} = \frac{3}{\quad}$$

$$\textcircled{4} \quad \frac{36}{48} = \frac{6}{\quad}$$

$$\textcircled{14} \quad \frac{6}{24} = \frac{\quad}{4}$$

$$\textcircled{5} \quad \frac{27}{45} = \frac{3}{\quad}$$

$$\textcircled{15} \quad \frac{\quad}{24} = \frac{3}{4}$$

$$\textcircled{6} \quad \frac{\quad}{80} = \frac{7}{8}$$

$$\textcircled{16} \quad \frac{9}{\quad} = \frac{1}{8}$$

$$\textcircled{7} \quad \frac{12}{18} = \frac{\quad}{3}$$

$$\textcircled{17} \quad \frac{8}{40} = \frac{\quad}{5}$$

$$\textcircled{8} \quad \frac{8}{16} = \frac{\quad}{4}$$

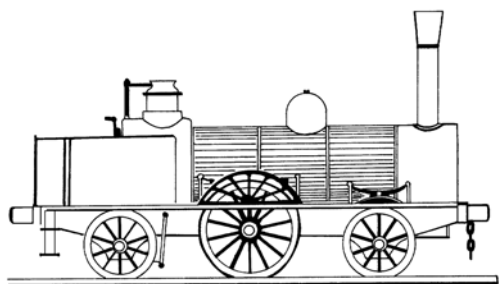
$$\textcircled{18} \quad \frac{81}{90} = \frac{\quad}{10}$$

$$\textcircled{9} \quad \frac{42}{60} = \frac{\quad}{10}$$

$$\textcircled{19} \quad \frac{20}{32} = \frac{5}{\quad}$$

$$\textcircled{10} \quad \frac{18}{45} = \frac{\quad}{5}$$

$$\textcircled{20} \quad \frac{28}{70} = \frac{4}{\quad}$$



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Simplifying Fractions - Pre test 6

*Waiter, bring me a crocodile sandwich...and make it snappy!*

Complete the Activity.

①  $\frac{4}{8} =$  \_\_\_\_\_

⑪  $\frac{35}{40} =$  \_\_\_\_\_

②  $\frac{28}{35} =$  \_\_\_\_\_

⑫  $\frac{7}{28} =$  \_\_\_\_\_

③  $\frac{12}{16} =$  \_\_\_\_\_

⑬  $\frac{6}{9} =$  \_\_\_\_\_

④  $\frac{10}{25} =$  \_\_\_\_\_

⑭  $\frac{16}{32} =$  \_\_\_\_\_

⑤  $\frac{18}{30} =$  \_\_\_\_\_

⑮  $\frac{15}{30} =$  \_\_\_\_\_

⑥  $\frac{28}{56} =$  \_\_\_\_\_

⑯  $\frac{5}{15} =$  \_\_\_\_\_

⑦  $\frac{45}{72} =$  \_\_\_\_\_

⑰  $\frac{30}{50} =$  \_\_\_\_\_

⑧  $\frac{80}{100} =$  \_\_\_\_\_

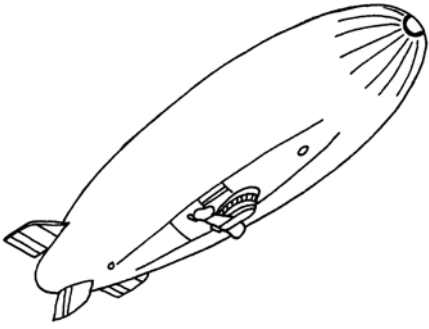
⑱  $\frac{8}{40} =$  \_\_\_\_\_

⑨  $\frac{28}{70} =$  \_\_\_\_\_

⑲  $\frac{18}{24} =$  \_\_\_\_\_

⑩  $\frac{27}{72} =$  \_\_\_\_\_

⑳  $\frac{8}{32} =$  \_\_\_\_\_



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Adding / Subtracting - Pre test 7

*Waiter, bring me a crocodile sandwich...and make it snappy!*

Complete the Activity.

①  $\frac{6}{10} + \frac{1}{8} =$  \_\_\_\_\_

⑪  $\frac{1}{2} + \frac{1}{5} =$  \_\_\_\_\_

②  $\frac{2}{10} + \frac{4}{10} =$  \_\_\_\_\_

⑫  $\frac{2}{4} + \frac{4}{8} =$  \_\_\_\_\_

③  $\frac{5}{8} + \frac{2}{3} =$  \_\_\_\_\_

⑬  $\frac{1}{4} + \frac{3}{4} =$  \_\_\_\_\_

④  $\frac{3}{5} + \frac{2}{4} =$  \_\_\_\_\_

⑭  $\frac{3}{4} + \frac{4}{5} =$  \_\_\_\_\_

⑤  $\frac{1}{3} + \frac{1}{2} =$  \_\_\_\_\_

⑮  $\frac{2}{3} + \frac{5}{10} =$  \_\_\_\_\_

⑥  $\frac{4}{10} - \frac{1}{4} =$  \_\_\_\_\_

⑯  $\frac{4}{8} - \frac{2}{5} =$  \_\_\_\_\_

⑦  $\frac{6}{8} - \frac{2}{10} =$  \_\_\_\_\_

⑰  $\frac{7}{8} - \frac{2}{8} =$  \_\_\_\_\_

⑧  $\frac{9}{10} - \frac{1}{3} =$  \_\_\_\_\_

⑱  $\frac{3}{8} - \frac{1}{8} =$  \_\_\_\_\_

⑨  $\frac{6}{10} - \frac{3}{8} =$  \_\_\_\_\_

⑲  $\frac{8}{10} - \frac{6}{8} =$  \_\_\_\_\_

⑩  $\frac{3}{5} - \frac{3}{8} =$  \_\_\_\_\_

⑳  $\frac{2}{5} - \frac{1}{5} =$  \_\_\_\_\_





Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Multiply / Divide - Pre test 8

*How do you stop rabbits digging up your garden? Easy - take their spades away!*

Complete the Activity.

①  $\frac{1}{4} \times \frac{2}{5} =$  \_\_\_\_\_

⑪  $\frac{2}{4} \times \frac{2}{6} =$  \_\_\_\_\_

②  $\frac{1}{2} \times \frac{1}{4} =$  \_\_\_\_\_

⑫  $\frac{1}{3} \times \frac{1}{3} =$  \_\_\_\_\_

③  $\frac{1}{6} \times \frac{2}{4} =$  \_\_\_\_\_

⑬  $\frac{5}{6} \times \frac{2}{3} =$  \_\_\_\_\_

④  $\frac{4}{6} \times \frac{1}{2} =$  \_\_\_\_\_

⑭  $\frac{1}{5} \times \frac{4}{5} =$  \_\_\_\_\_

⑤  $\frac{2}{3} \times \frac{1}{5} =$  \_\_\_\_\_

⑮  $\frac{3}{4} \times \frac{3}{4} =$  \_\_\_\_\_

⑥  $\frac{4}{5} \div \frac{1}{6} =$  \_\_\_\_\_

⑯  $\frac{3}{6} \div \frac{5}{6} =$  \_\_\_\_\_

⑦  $\frac{2}{5} \div \frac{3}{6} =$  \_\_\_\_\_

⑰  $\frac{2}{6} \div \frac{4}{6} =$  \_\_\_\_\_

⑧  $\frac{3}{5} \div \frac{1}{5} =$  \_\_\_\_\_

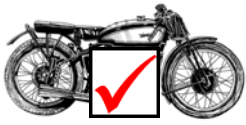
⑱  $\frac{1}{5} \div \frac{3}{5} =$  \_\_\_\_\_

⑨  $\frac{2}{6} \div \frac{1}{4} =$  \_\_\_\_\_

⑲  $\frac{1}{2} \div \frac{2}{4} =$  \_\_\_\_\_

⑩  $\frac{1}{3} \div \frac{1}{5} =$  \_\_\_\_\_

⑳  $\frac{1}{4} \div \frac{2}{4} =$  \_\_\_\_\_



Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Equivalent Fractions - Pre test 5

*What is as big as an elephant and weighs nothing at all? An elephants shadow!*

Complete the Activity.

①  $\frac{5}{10} = \frac{1}{2}$

⑪  $\frac{40}{50} = \frac{4}{5}$

②  $\frac{24}{30} = \frac{8}{10}$

⑫  $\frac{24}{48} = \frac{4}{8}$

③  $\frac{8}{24} = \frac{1}{3}$

⑬  $\frac{27}{72} = \frac{3}{8}$

④  $\frac{36}{48} = \frac{6}{8}$

⑭  $\frac{6}{24} = \frac{1}{4}$

⑤  $\frac{27}{45} = \frac{3}{5}$

⑮  $\frac{18}{24} = \frac{3}{4}$

⑥  $\frac{70}{80} = \frac{7}{8}$

⑯  $\frac{9}{72} = \frac{1}{8}$

⑦  $\frac{12}{18} = \frac{2}{3}$

⑰  $\frac{8}{40} = \frac{1}{5}$

⑧  $\frac{8}{16} = \frac{2}{4}$

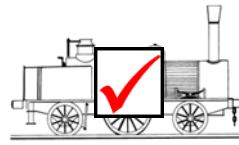
⑱  $\frac{81}{90} = \frac{9}{10}$

⑨  $\frac{42}{60} = \frac{7}{10}$

⑲  $\frac{20}{32} = \frac{5}{8}$

⑩  $\frac{18}{45} = \frac{2}{5}$

⑳  $\frac{28}{70} = \frac{4}{10}$



Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Simplifying Fractions - Pre test 6

*Waiter, bring me a crocodile sandwich...and make it snappy!*

Complete the Activity.

①  $\frac{4}{8} = \frac{1}{2}$

⑪  $\frac{35}{40} = \frac{7}{8}$

②  $\frac{28}{35} = \frac{4}{5}$

⑫  $\frac{7}{28} = \frac{1}{4}$

③  $\frac{12}{16} = \frac{3}{4}$

⑬  $\frac{6}{9} = \frac{2}{3}$

④  $\frac{10}{25} = \frac{2}{5}$

⑭  $\frac{16}{32} = \frac{1}{2}$

⑤  $\frac{18}{30} = \frac{3}{5}$

⑮  $\frac{15}{30} = \frac{1}{2}$

⑥  $\frac{28}{56} = \frac{1}{2}$

⑯  $\frac{5}{15} = \frac{1}{3}$

⑦  $\frac{45}{72} = \frac{5}{8}$

⑰  $\frac{30}{50} = \frac{3}{5}$

⑧  $\frac{80}{100} = \frac{4}{5}$

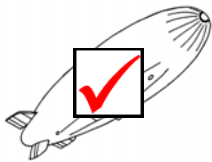
⑱  $\frac{8}{40} = \frac{1}{5}$

⑨  $\frac{28}{70} = \frac{2}{5}$

⑲  $\frac{18}{24} = \frac{3}{4}$

⑩  $\frac{27}{72} = \frac{3}{8}$

⑳  $\frac{8}{32} = \frac{1}{4}$



Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Adding / Subtracting - Pre test 7

*Waiter, bring me a crocodile sandwich...and make it snappy!*

Complete the Activity.

①  $\frac{6}{10} + \frac{1}{8} = \frac{29}{40}$

⑪  $\frac{1}{2} + \frac{1}{5} = \frac{7}{10}$

②  $\frac{2}{10} + \frac{4}{10} = \frac{3}{5}$

⑫  $\frac{2}{4} + \frac{4}{8} = 1$

③  $\frac{5}{8} + \frac{2}{3} = 1\frac{7}{24}$

⑬  $\frac{1}{4} + \frac{3}{4} = 1$

④  $\frac{3}{5} + \frac{2}{4} = 1\frac{1}{10}$

⑭  $\frac{3}{4} + \frac{4}{5} = 1\frac{11}{20}$

⑤  $\frac{1}{3} + \frac{1}{2} = \frac{5}{6}$

⑮  $\frac{2}{3} + \frac{5}{10} = 1\frac{1}{6}$

⑥  $\frac{4}{10} - \frac{1}{4} = \frac{3}{20}$

⑯  $\frac{4}{8} - \frac{2}{5} = \frac{1}{10}$

⑦  $\frac{6}{8} - \frac{2}{10} = \frac{11}{20}$

⑰  $\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$

⑧  $\frac{9}{10} - \frac{1}{3} = \frac{17}{30}$

⑱  $\frac{3}{8} - \frac{1}{8} = \frac{1}{4}$

⑨  $\frac{6}{10} - \frac{3}{8} = \frac{9}{40}$

⑲  $\frac{8}{10} - \frac{6}{8} = \frac{1}{20}$

⑩  $\frac{3}{5} - \frac{3}{8} = \frac{9}{40}$

⑳  $\frac{2}{5} - \frac{1}{5} = \frac{1}{5}$



Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Multiply / Divide - Pre test 8

*How do you stop rabbits digging up your garden? Easy - take their spades away!*

Complete the Activity.

①  $\frac{1}{4} \times \frac{2}{5} = \frac{1}{10}$

⑪  $\frac{2}{4} \times \frac{2}{6} = \frac{1}{6}$

②  $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$

⑫  $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$

③  $\frac{1}{6} \times \frac{2}{4} = \frac{1}{12}$

⑬  $\frac{5}{6} \times \frac{2}{3} = \frac{5}{9}$

④  $\frac{4}{6} \times \frac{1}{2} = \frac{1}{3}$

⑭  $\frac{1}{5} \times \frac{4}{5} = \frac{4}{25}$

⑤  $\frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$

⑮  $\frac{3}{4} \times \frac{3}{4} = \frac{9}{16}$

⑥  $\frac{4}{5} \div \frac{1}{6} = 4\frac{4}{5}$

⑯  $\frac{3}{6} \div \frac{5}{6} = \frac{3}{5}$

⑦  $\frac{2}{5} \div \frac{3}{6} = \frac{4}{5}$

⑰  $\frac{2}{6} \div \frac{4}{6} = \frac{1}{2}$

⑧  $\frac{3}{5} \div \frac{1}{5} = 3$

⑱  $\frac{1}{5} \div \frac{3}{5} = \frac{1}{3}$

⑨  $\frac{2}{6} \div \frac{1}{4} = 1\frac{1}{3}$

⑲  $\frac{1}{2} \div \frac{2}{4} = 1$

⑩  $\frac{1}{3} \div \frac{1}{5} = 1\frac{2}{3}$

⑳  $\frac{1}{4} \div \frac{2}{4} = \frac{1}{2}$