

MathLinks

BIG SQUARE PUZZLES

Big Square Puzzles are a great way to practice arithmetic and algebra ideas. To get started, pick and print a puzzle, cut up the pieces, and mix them up. To solve the puzzle, arrange the square pieces so that the expressions or equations on the pieces' edge are equal to each other. For extra fun, print the puzzle template at the end of this file and make your own puzzle for your parents to try!

BIG SQUARE PUZZLE

FRACTION AND DECIMAL EQUIVALENTS

0.900 0.125	$\frac{1}{8}$ $\frac{6}{8}$ 0.5	0.75 0.875 0.50	$\frac{1}{2}$ $\frac{3}{25}$
$\frac{10}{9}$ 0.75 $\frac{5}{8}$	$\frac{24}{12}$ $\frac{3}{4}$ 0.2	$\frac{8}{7}$ 0.6 $\frac{1}{2}$	0.12 0.8 0.06
0.625 0.20 0.75	$\frac{5}{1}$ $\frac{1}{5}$ $\frac{150}{1000}$	0.5 $\frac{4}{5}$ 0.14	$\frac{100}{6}$ $\frac{7}{50}$ 1
$\frac{4}{3}$ 0.4	0.15 $\frac{2}{15}$ 0.375	0.8 $\frac{3}{8}$ 0.10	$\frac{4}{4}$ $\frac{1}{10}$

BIG SQUARE PUZZLE

FRACTION ADDITION AND SUBTRACTION

$3 + 2\frac{1}{4}$ $\frac{1}{3}$	$5\frac{1}{4}$ 4	0.3 $\frac{1}{5} + \frac{1}{5}$	$2\frac{2}{3} + \frac{2}{3}$ $\frac{7}{12}$
$\frac{1}{2} + \frac{1}{3} + \frac{1}{5}$ $1 - \frac{3}{4}$	%08 $2\frac{1}{5}$	$10\frac{1}{2} - 6\frac{1}{2}$ $3\frac{1}{4}$	$6 - \frac{1}{8}$ 0.60
$4\frac{1}{1}$ 8	$3 - \frac{5}{4}$ 0.8	$3 + \frac{3}{2} + \frac{3}{2}$ $\frac{1}{4}$	$5\frac{1}{3}$ 30%
$3 + \frac{1}{2} + 4\frac{1}{2}$ $1 - \frac{1}{20}$	%56 1	$2\frac{1}{2} - 1$ $\frac{1}{2} + 5.0$	$40 - 1\frac{1}{2}$ 38.5

BIG SQUARE PUZZLE

SOLVING EQUATIONS WITH FRACTIONS AND DECIMALS

$\frac{4x}{5} = \frac{2}{5}$ $X = 10$	$0.5x = 5$ $0.2x = 5$ $\frac{2}{5} = x$	$5x = 2$ $5x = 2.5$ $0.2 + x = 0.2$	$x = 0$ $\frac{1}{2}x = \frac{1}{5}$
$2x = \frac{1}{5}$ $x = \frac{1}{2}$	$x + 2.5 = 5$ $x = 25$ $2x = 0$	$x = 0$ $9 = \frac{5}{2} + x$ $x = \frac{2}{1}$	$x = 4.6$ $0.5x = 0.2$
$x = \frac{10}{1}$ $x = 1$	$2.5x = 5$ $x = 1$ $2 = x - \frac{2}{5}$	$x = 0.3$ $x - 2.5 = 5$ $x = 3$	$x = 0.4$ $2 + x = 5$ $10 = x$
$0.02x = 0.02$ $\frac{2}{5} = x$	$2x = 5$ $x = \frac{2}{5}$ $5.0 = x9$	$x = 0.1$ $x = 7$ $10 = x$	$5 = \frac{x}{2}$ $\frac{5}{1}x = 2$

BIG SQUARE PUZZLE MEASUREMENT CONVERSIONS

1 foot 1 gallon	4 quarts 1 yard $\frac{1}{8}$ gallon	1 pint 3 inches	4 fl oz $\frac{1}{2}$ cup 4 feet
1 yard $\frac{1}{3}$ yard $1\frac{1}{3}$ yards	3 feet 1 quart 1 inch	1 fl oz $\frac{1}{8}$ cup $\frac{1}{12}$ feet	48 inches $\frac{1}{2}$ gallon 1,760 yards
4 feet 1 pint 5,280 feet	2.54 cm 2 cups 5,280 feet	1 inch 16 cups 1 gallon 4 yards	1 mile $\frac{1}{16}$ gallon 144 inches
1 mile 8 fl oz	1,760 yards 1 cup	12 feet 1 quart 4 cups	4 yards 1 quart $\frac{1}{2}$ gallon

BIG SQUARE PUZZLE TEMPLATE

