

PRACTICE MATH ASSESSMENT TOOL

WHOLE NUMBERS

Addition:

$42 + 28 =$ $29 + 44 =$ $127 + 58 =$ $1 + 37 =$

Subtraction:

$42 - 29 =$ $126 - 12 =$ $73 - 35 =$ $22 - 22 =$

Multiplication:

$7 \times 12 =$ $4 \times 26 =$ $14 \times 15 =$ $17 \times 6 =$

Division:

$168 / 12 =$ $88 / 11 =$ $95 / 5 =$ $36 / 4 =$

SIMPLE FRACTIONS

Addition:

$1/6 + 1/4 =$ you must find the *common denominator*. Both numbers (*denominators*) 4 and 6, will go into 24..($4 \times 6 = 24$). 6 goes into 24 four times, so $1/6 = 4/24$; and 4 goes into 24 six times, so $1/4 = 6/24$. Therefore,

$1/6 + 1/4$ is the same as $4/24 + 6/24 = 10/24$, which reduces to $5/12$ (both divisible by 2)

$1/2 + 1/12 =$ $2/7 + 1/2 =$ $1 \frac{1}{5} + 2/3 =$ $5/6 + 3/4 =$

Subtraction:

$3/4 - 3/5 =$ use the same principle as in addition to establish a *common denominator*. In this problem, the *common denominator* is 20 ($4 \times 5 = 20$). Therefore,

$3/4 - 3/5$ is the same as $15/20 - 12/20 = 3/20$

$3/4 - 1/8 =$ $2/3 - 3/5 =$ $7/8 - 5/12 =$ $1 - 1/5 =$

Multiplication:

$4/7 \times 3/4 =$ multiply the *numerator by the numerator* ($4 \times 3 = 12$) and the *denominator by the denominator* ($7 \times 4 = 28$). The solve and reduce, if possible. Therefore,

$4/7 \times 3/4 = 12/28$, which reduces to $3/7$ (both numerator and denominator are divisible by 4)

$2/9 \times 1/4 =$ $5/6 \times 2/3$ $4/7 \times 2/5 =$ $1 \frac{1}{8} \times 1/2 =$

Division:

$1/2 \div 2/3 =$ *invert the divisor* (in this case $2/3$), and multiply as instructed I the multiplication above, the reduce, if necessary. Therefore,

$1/2 \div 2/3 = 1/2 \times 3/2$ (invert divisor) $= 3/4$

$1 \frac{3}{8} \div 1/3 =$ $3/7 \div 1/7 =$ $2/3 \div 1/4 =$ $5/8 \div 4/7 =$

PERCENTAGES

25% of 300= when finding percentages of numbers, *move the decimal point two places to the left* and multiply.

25% of 300 is the same as $.25 \times 300 = 75.00$, or simply 75

125% of 300 is the same as $1.25 \times 300 = 375.00$, or simply 375.

$60\% \text{ of } 200 =$ $115\% \text{ of } 40 =$ $43\% \text{ of } 100 =$ $58\% \text{ of } 500 =$

PRACTICE MATH ASSESSMENT ANSWERS

Whole Numbers

Addition:	70,	73,	185,	38
Subtraction:	13,	114,	38,	0
Multiplication:	84,	104,	210,	102
Division:	14,	8,	19,	9

Simple Fractions

Addition:	$7/12,$	$11/14,$	$1\ 13/15,$	$1\ 7/12$
Subtraction:	$5/8,$	$1/15,$	$11/24,$	$4/5$
Multiplication:	$1/18,$	$5/9,$	$8/35,$	$9/16$
Division:	$4\ 1/8,$	$3,$	$2\ 2/3,$	$1\ 3/32$

Percentages

120,	46,	43,	290
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