

Math Homework Helper

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Rounding
4 or less, let it rest!
5 or more, raise the score!

Key Words for Word Problems:

Add: sum, increased by, altogether, plus, combined, total, in all
Subtract: difference, decreased by, how many more, minus, less, fewer than, less than, left
Multiplication: product, times, twice, of, each
Division: quotient, shared equally, divided by, each

Prime or Composite?

A prime number has only 2 factors.
Ex: 3 is a prime number because it only has 2 factors, 1 and 3.

A composite number has 3 or more factors.
Ex: 8 is a composite number because it has 4 factors: 1, 2, 4, and 8.

The number 1 is neither prime nor composite, because it only has 1 factor...!

Millions			Thousands			Ones			•	Decimals		
hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	decimal point	tenths	hundredths	thousandths
3	9	0	1	6	4	7	6	5	•	5	6	8

Simplifying Fractions

To simplify a fraction, you reduce it to lowest terms.

$$\frac{3}{9} \xrightarrow{\div 3} \frac{1}{3}$$

$$\frac{2}{10} \xrightarrow{\div 2} \frac{1}{5}$$

$$\frac{2}{7} \text{ simplified}$$

Factors:

Numbers that are multiplied together to form a number.

Factors of 12

1 x 12
2 x 6
3 x 4

So, factors of 12 are 1, 2, 3, 4, 6, 12.

Factors of 16

1 x 16
2 x 8
4 x 4

So, factors of 16 are 1, 2, 4, 8, 16.

Multiples:

The product of a number and any whole number.

Examples:

Multiples of 2:
2, 4, 6, 8, 10, 12, 14, 16...

Multiples of 3:
3, 6, 9, 12, 15, 18, 21, 24...

Fractions and Decimals Equivalents:

$$\frac{1}{4} = 0.25$$

$$\frac{1}{5} = 0.20$$

$$\frac{2}{4} \text{ or } \frac{1}{2} = 0.50$$

$$\frac{2}{5} = 0.40$$

$$\frac{3}{4} = 0.75$$

$$\frac{3}{5} = 0.60$$

$$\frac{4}{5} = 0.80$$

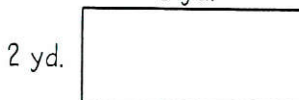
Perimeter and Area of Squares and Rectangles:

To find the perimeter, add up all the sides! ($P = s + s + s + s$)



$$P = 4 + 4 + 4 + 4 = 16 \text{ in.}$$

To find the area, multiply the length & width together. ($A = l \times w$)



$$A = 2 \times 5 = 10 \text{ yd.}^2 \text{ or } 10 \text{ sq. yd.}$$