

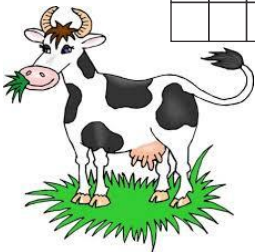


4. Word Problems:

*Example:*

Mary and Julia are twins. They invited 28 friends to their birthday party. Mary wrote 3 times as many invitation cards as Julia did. How many cards did Julia write? (4)

<i>Julia - <math>x</math> cards</i>	$x + 3 \times x = 28$
<i>Mary - <math>3 \times x</math> cards</i>	$4 \times x = 28$
<i>Total - 28 cards</i>	$x = 28 \div 4 = 7$
<i>Julia wrote 7 cards.</i>	



a. A cow weighs 20 times as much as sheep weights. Together the cow and the sheep weight 2100 lb. How many pounds does the sheep weight? How many pounds does the cow weight? (6)



b. There are 93 students in the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> grades altogether. The number of students in the 1<sup>st</sup> and 2<sup>nd</sup> grades is 62, and in 2<sup>nd</sup> and 3<sup>rd</sup> grades is 64. How many students are there in each grade? (6)

5. Replace the addition with multiplication: (6)

*Example:*

$14 + 14 + 14 + 14 = 4 \times 14$
$x + x + x = 3 \times x$

a.  $35 + 35 + 35 + 35 + 35$ ;

b.  $120 + 120 + 120 + 120$

c.  $a + a + a + a + a + a + a + a$ ;

d.  $x + x + x + x + x$ ;

e.  $\underbrace{34 + 34 + \dots + 34}_{10 \text{ times}}$

f.  $\underbrace{23 + 23 + \dots + 23}_{100 \text{ times}}$

e.  $\underbrace{a + a + \dots + a}_{100 \text{ times}}$

6. Compare without doing calculations (put  $<$ ,  $>$ , or  $=$ ):

a.  $2453 + 235$  \_\_\_\_  $2453 + 236$

b.  $2341 - 123$  \_\_\_\_  $2341 - 122$

c.  $234 \times 123$  \_\_\_\_  $234 \times 122$

d.  $456 \div 4$  \_\_\_\_  $456 \div 3$

e.  $a \div 4$  \_\_\_\_  $a \div 3$

f.  $b + 235$  \_\_\_\_  $b + 236$  (6)

7. Calculate by the most convenient way:

a.  $2608 + 529 + 392 + 271 =$

b.  $1016 + 704 + 250 + 884 + 296 =$  (4)

8. Compute: (6)

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

$$\frac{7}{9} - \frac{4}{9} =$$

$$\frac{1}{2} + \frac{1}{4} =$$

$$\frac{5}{9} + \frac{1}{9} =$$

$$\frac{3}{8} + \frac{1}{2} =$$

$$\frac{9}{12} - \frac{2}{3} =$$