Numbers 3 & Word Problems

Mathematics and Millennials – 6th

Word Problems

Word or Verbal Problems supplement Computations and provide needed extensions into the Real World!

A path designed for Success & Confidence is critical! Beginning Word Problems must not be hurried!

Word Problems augmenting Number & Decimal Facts provide expansion & development of Fundamentals!

(1) Number Problem

The Sum of two numbers is 15. One number is twice the other. Determine the two addends! Show Work & Check Answers! Use visual image to illustrate words!

A+A A

----------|---------- Sum = 15

A+A+A = 15 A = ___ Check Answer!

__ + __ = 10 __ = 5 Checks?

(2) Number Problem

The Difference of two numbers is 7! The larger of the two numbers is 18! Determine the two numbers. Show Work & Check! Use visual image to represent words!

L=18 S=?

----------|---------- Difference = 7

18 – S = 7 S = ___ Check Answer!

18 – ___ = 7 Checks?

(3) Number Problem

The Product of two numbers is 49! The factors are the same value! Determine the two factors! Show Work & Check Answers! Use visual image to illustrate words!

F F

----------|---------- Product = 49

F x F = 49 F = ___ Check Answer!

___ x ___ = 49 Checks?

(4) Number Problem

The Quotient of two numbers is 5! The smaller of the two numbers is 4! Determine the two numbers! Show Work & Check! Use visual image to represent words!

L=? S=4

----------|---------- Quotient = 5

L / 4 = 5 L = ___ Check Answer!

___ / 4 = 5 Checks?

(1) Decimal Problem

The Sum of two numbers is 4.7! One of the addends is 1.2! Determine the two numbers! Show Work & Check Answers! Use visual image to illustrate words!

A=1.2 A=?

----------|---------- Sum = 4.7

1.2 + A = 4.7 A = ___ Check Answer!

1.2 + __ = 4.7 Checks?

(2) Decimal Problem

The Difference of two numbers is .45! The larger of the two numbers is 1.68! Determine two numbers! Show Work & Check! Use visual image to represent words!

L=1.68 S=?

----------|---------- Difference = .45

1.68 – S = .45 S = ___ Check Answer!

1.68 – __ = .45 Checks?

(3) Decimal Problem

The Product of two decimals is .16! The decimals have the same value! Determine the two decimals! Show Work & Check! Use visual image to illustrate words!

D D

----------|---------- Product = .16

D x D = .16 D = ___ Check Answer!

___ x ___ = .16 Checks?

(4) Decimal Problem

The Quotient of two decimals is .2! The Divisor of the two decimals is .3! Determine two decimals! Show Work & Check! Use visual image to illustrate words!

D=? D=.3

----------|---------- Quotient = .2

D / .3 = .2 D = ___ Check Answer!

___ / ___ = .2 Checks?

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Word or Verbal Problems supplement Computations and provide needed extensions into the Real World!

A path designed for Success & Confidence is critical! Beginning Word Problems must not be hurried!

Word Problems augmenting Proportions & Percentages provide expansion & development of Fundamentals!

(1) Proportion Problem

An Elementary Class of students has a ratio of Boys to Girls that stands at 2 to 3. The class has 10 Boys! How many Girls in the class? Show work & Check!

2 to 3 = B to G 2 to 3 = 10 to G

2G = 30 G = ___ Check!

2 to 3 = 10 to ___ ___ = ___ Checks?

(2) Proportion Problem

A recipe for Chocolate & Raisin cookies has a ratio of Chocolates to Raisins being 3 to 4. If 12 Raisins are in the cookies, how many Chocolates? Work & Check!

3 to 4 = C to R 3 to 4 = C to 12

36 = 4C C = ___ Check!

3 to 4 = ___ to 12 ___ = ___ Checks?

(3) Proportion Problem

Jane and Pete created posters for a ball game with a ratio of 5 to 4. Jane fewer posters and created 10. How many did Pete make? Show Work & Check!

5 to 4 = J to P 5 to 4 = 10 to P

5P = 40 P = ___ Check!

5 to 4 = 10 to ___ ___ = ___ Checks?

(4) Proportion Problem

Tom and Mary went fishing and they caught a ratio of 7 to 5. Mary caught 15 fish but Tom is a better fisher! How many did Tom catch? Show work & Check!

7 to 5 = T to M 7 to 5 = T to 15

105 = 5T ___ = T Check!

7 to 5 = __ to 15 ___ = ___ Checks?

(1) Percentage Problem

50% of 12 Long Yellow Bananas is how many Long Yellow Bananas! A Percent is a ratio: Number to 100!
Convert Percent Statement to Proportion & Solve!

50% of 12 is B 50 to 100 = B to 12

600 = 100B ___ = B Check!

50 to 100 = ___ to 12 ___ = ___ Checks?

(2) Percentage Problem

What percent of the number sixteen is 4? These numbers represent length in inches! Percent is a ratio!
Convert Percent Statement to Proportion & Solve!

P% of 16 is 4 P to 100 = 4 to 16

16P = 400 P = ___ Check!

___ to 100 = 4 to 16 ___ = ___ Checks?

(3) Percentage Problem

75% of 24 ounces Enriched Orange Drink is water.
Orange Drink is healthy! How many ounces is water?
Convert Percent Statement to Proportion & Solve!

75% of 24 is W 75 to 100 = W to 24

1800 = 100W ___ = W Check!

75 to 100 = ___ to 24 ___ = ___ Checks?

(4) Percentage Problem

What percent of a $40 investment is 70 Dollars?
This appears to be a profitable investment! Maybe?
Convert Percent Statement to Proportion & Solve!

P% of 40 is 70 P to 100 = 70 to 40

40P = 7000 P = ___ Check!

___ to 100 = 70 to 40 ___ = ___ Checks?

Conclusion