Study the following.

sum – addition; or the answer when you add

Example: the sum of 1 and 3 is 4. 1+3=4

<u>difference</u> – subtraction; or the answer when you subtract

Example: the difference of 8 and 5 is 3. 8-5=3

<u>product</u> – multiplication; or the answer when you multiply

Example: the product of 10 and 3 is 30. $10 \times 3 = 30$

quotient – division; or the answer when you divide

Example: the quotient of 8 and 4 is 2. $8 \div 4 = 2$

and – and sometimes means addition

Example: 4 and 2 is 6 4 + 2 = 6

<u>times</u> – multiplication

Example: 3 times 4 is 12 $3 \times 4 = 12$

is – equals, or is equal to

Example: 1 plus 4 is 5 1 + 4 = 5

<u>number sentence</u> – an equation made up of numbers and symbols. Examples:

2+3=5 2-4=2 3=4-1 4+3=7

More Examples: The sum of 4 and 5 is 9. 4 + 5 = 9

The difference of 6 and 4 is 2. 6-4=2

The product of 3 and 5 is 15. 3 * 5 = 15

The quotient of 10 and 2 is 5. $10 \div 2 = 5$

2 and 3 is 5. 2+3=5

2 times 4 is 8 2 * 4 = 8

3 is 2 plus 1 3 = 2 + 1

Write 2 examples using each word. Write the examples in two parts showing the words, and the number sentence. See the examples above.

words	number sentence
sum 1. The sum of 1 and 2 is 3.	1 + 2 = 3
2.	
difference 1.	
2.	
product 1.	
2.	
quotient 1.	
2.	
and 1.	
2.	
times 1.	
2.	
is 1.	
2.	

Matching

um – multiplication; or the answer when you multiplication		
difference –	addition; or the answer when you add	
product –	multiplication	
quotient –	equals	
and –	subtraction; or the answer when you subtract	
times –	division; or the answer when you divide	
is –	sometimes means addition	
Write the definition of a num	ber sentence.	
Write an example of a number sentence.		
2		
Write as a number sentence.		
3. The sum of 8 and 2 is 10		
4. The difference of 10 and 4 is 6.		
5. The product of 5 and 3 is 15.		
6. The quotient of 20 and 4 is 5		
7. Four times six equals 24		
8. Seven and three is ten.		
9. The product of 4 and nine is 36.		
10. The quotient of 15 and 3 is five.		

Solve.

1. The sum of 4 and 2 is			
2. The product of 6 and 4 is			
3. The quotient of 8 and 2 is			
4. The difference of 18 and	16 is		
5. Seven times three is	·		
6. 5 and 5 is	·		
7. The difference of ten and 4 is			
8. The sum of eight and three is			
9. The product of three and	two is		
10. The quotient of nine and	three is		
Fill in the blanks.			
11. The	_ of 4 and 2 is 6.		
12. The	of 10 and 2 is 8.		
13. The	_ of 10 and 2 is 5.		
14. The	_ of 4 and 5 is 20.		
15. The	_ of 10 and 10 is 20.		
16. The	of 20 and 4 is five.		
17. The	of four and three is twelve.		
18. The	of nine and ten is one.		
19. The sum of four and seven eleven.			

Study the following words.

twice- two times, or times 2.

Example: twice 3 is 6 means $2 \times 3 = 6$

power- an exponent

Example: 2 to the power of 4 means 2^4

squared – to the second power

Example: 3 squared means 3²

<u>cubed</u> – to the third power

Example: 5 cubed means 5³

Write 3 examples using each word. Write the examples in two parts showing the words, and then the numbers and symbols.

twice	
1. twice 4	2×4
2.	
3.	
power	
1.	
2.	
3.	
squared 1.	
1.	
2.	
2.	
3.	
cubed	
1.	
2.	
3.	
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Matching. twice an exponent two times power squared to the third power to the second power cubed Write using numbers and symbols. 1. twice 5 _____ 2. four squared _____ 3. 8 cubed _____ 4. 10 to the fifth power _____ 5. 7 squared _____ 6. twice 11 _____ 7. 4 to the eighth power _____

8. nine squared _____

9. two cubed _____

10. twice 12 _____

Study the following.

All these words mean subtraction.

difference
minus
decreased by
fewer than
less than
shorter than
subtracted from

Examples:

The difference of 8 and 2	8 - 2
12 minus 7	12 - 7
6 decreased by 4	6 - 4

Note: The words in bold above (fewer than, less than, shorter than, and subtracted from) are all written backwards.

4 fewer than 5	5 - 4
4 less than 6	6 - 4
1 shorter than 8	8 - 1
3 subtracted from 10	10 - 3

Write three examples of each, showing the words, and the number sentence.

	Words	Number sentence
difference		
1.		
2.		
3.		

CITAL TER / WOI	Words	Number sentence
minus		
1.		
2.		
3.		
decreased by		
1.		
2.		
3.		
fewer than		
1.		
2.		
3.		
less than		
1.		
2.		
3.		
shorter than		
1.		
2.		
3.		
subtracted		
from		
1.		
1.		
2.		
<i>_</i> .		
3		

Study the following.

All these words mean addition.

sum
plus
increased by
together
added to
more than
longer than

Examples:

The sum of 4 and 3	4 + 3
4 plus 1	4 + 1
2 increased by 7	2 + 7
3 and 5 together	3 + 5

Note: The words in bold above (added to, more than, longer than,) should be written backwards. Since in addition it doesn't matter which number you write first, you can write these either way and it means the same thing. Example: 4 added to 3 means exactly 3 + 4, but you could also write it 4 + 3.

All the examples and answers to follow will be written backwards, since this is more exactly what is being said by the words.

Examples:	8 added to 1	1 + 8
	2 more than 7	7 + 2
	6 longer than 3	3 + 6

Write three examples of each, showing the words, and the number sentence.

	Words	Number sentence
sum		
1.		
2.		
3.		

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	Words	Number sentence
plus		
1.		
2.		
3.		
increased by		
1.		
1.		
2.		
2.		
3.		
together		
1.		
1.		
2.		
2.		
2		
3.		
added to		
1.		
2.		
3.		
more than		
1.		
2.		
3.		
longer than		
1.		
2.		
3.		
	1	

Study the following.

All these words mean multiplication.

product times

Examples:

the product of 2 and 4 2×4 8 times 2 8×2

Write three examples of each, showing the words and the number sentence.

	Words	Number sentence
product		
1.		
2.		
2.		
3.		
times		
1.		
2.		
2.		
3.		

Study the following.

All these words mean division

quotient divided by shared equally

Examples:

The quotient of 20 and 4	$20 \div 4$
12 divided by 6	12 ÷ 6
10 shared equally by 2 people	10 ÷ 2

Write three examples of each, showing the words, and the number sentence.

	Words	Number sentence
quotient		
1.		
2.		
3.		
divided by		
1.		
1.		
2.		
3.		
shared equally		
1.		
2.		
3.		

State whether the term means add, subtract, multiply or divide.

1.	sum
	Duili

- 2. product
- 3. together
- 4. increased by
- 5. shared equally
- 6. difference
- 7. fewer than
- 8. **longer than**
- 9. times
- 10. minus
- 11. less than
- 12. added to
- 13. **subtracted from**
- 14. quotient
- 15. decreased by
- 16. more than
- 17. divided by
- 18. plus
- 19. **shorter than**

Write as a number sentence.

1.	8 added to 2 is 10
2.	The product of 4 and 6 is 24.
3.	30 shared equally among 3 is 10.
4.	3 fewer than 8 is 5.
5.	1 more than 3 is 4
6.	6 divided by 3 is 2.
7.	3 shorter than 7 is 4
8.	5 added to 3 is 8
9.	the quotient of 20 and 4 is 5.
10.	the sum of 7 and 2 is 9.
11.	4 subtracted from 6 is 2.
12.	3 and 3 together are 6.
13.	7 minus 6 is 1
14.	10 plus 4 is 14

Solve.

1.	The product of 3 and 7 is
2.	8 divided by 2 is
3.	3 longer than 8 is
4.	3 fewer than 7 is
5.	3 times 6 is
6.	1 shorter than 4 is
7.	3 decreased by 1 is
8.	the sum of 4 and 4 is
9.	the quotient of 10 and 2 is
10.	The difference of 6 and 3 is
11.	9 together with 3 is
12.	4 added to 2 is
13.	14 shared equally with 7 people is
14.	7 plus 2 is
15.	10 minus 9 equals