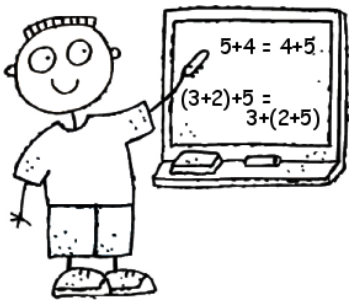
Name _____

Properties of Addition

Worksheet 1



The **commutative property of addition** is the rule which states that the order in which the numbers of an expression are combined does not affect the outcome.

Example: 3 + 5 = 5 + 3

The **associative property of addition** is the rule which states that the grouping of numbers in an expression does not affect the outcome.

Example: (3 + 5) + 7 = 3 + (5 + 7)

Which equation shows the commutative property of addition?

1. ○ (3 + 4) + 3 = 3 + (4 + 3)
   ○ 7 + 3 = 3 + 7
   ○ 7 + 3 = 10
   ○ 10 = 7 + 3

2. ○ 9 + 4 = 4 + 9
   ○ 9 + 4 = 13
   ○ 13 = 9 + 4
   ○ (5 + 4) + 4 = 5 + (4 + 4)

3. ○ 8 + 5 = 13
   ○ 13 = 8 + 5
   ○ (6 + 2) + 5 = 6 + (2 + 5)
   ○ 8 + 5 = 5 + 8

4. ○ 8 = 6 + 2
   ○ (2 + 4) + 2 = 2 + (4 + 2)
   ○ 6 + 2 = 2 + 6
   ○ 6 + 2 = 8

Which equation shows the associative property of addition?

5. ○ 10 = 6 + 4
   ○ (5 + 1) + 4 = 5 + (1 + 4)
   ○ 6 + 4 = 4 + 6
   ○ 6 + 4 = 10

6. ○ (3 + 2) + 7 = 3 + (2 + 7)
   ○ 5 + 7 = 7 + 5
   ○ 5 + 7 = 12
   ○ 12 = 5 + 7

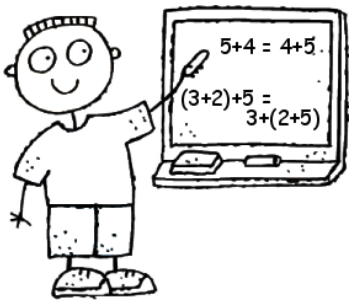
7. ○ 9 + 6 = 6 + 9
   ○ 9 + 6 = 15
   ○ 15 = 9 + 6
   ○ (7 + 2) + 6 = 7 + (2 + 6)

8. ○ 8 + 3 = 11
   ○ 11 = 8 + 3
   ○ (2 + 6) + 3 = 2 + (6 + 3)
   ○ 8 + 3 = 3 + 8

Name _____

Properties of Addition

Worksheet 2



The **commutative property of addition** is the rule which states that the order in which the numbers of an expression are combined does not affect the outcome.

Example: 3 + 5 = 5 + 3

The **associative property of addition** is the rule which states that the grouping of numbers in an expression does not affect the outcome.

Example: (3 + 5) + 7 = 3 + (5 + 7)

Which equation shows the commutative property of addition?

1. ○ (25 + 5) + 8 = 25 + (5 + 8)
   ○ 25 + 5 = 5 + 25
   ○ 25 + 5 = 30
   ○ 30 = 25 + 5

2. ○ 18 + 7 = 7 + 18
   ○ 18 + 7 = 25
   ○ 25 = 18 + 7
   ○ (9 + 9) + 7 = 9 + (9 + 7)

3. ○ 14 + 9 = 23
   ○ 23 = 14 + 9
   ○ (7 + 7) + 9 = 7 + (7 + 9)
   ○ 14 + 9 = 9 + 14

4. ○ 32 = 15 + 17
   ○ (9 + 6) + 17 = 9 + (6 + 17)
   ○ 15 + 17 = 17 + 15
   ○ 15 + 17 = 32

Which equation shows the associative property of addition?

5. ○ 28 = 13 + 15
   ○ (9 + 4) + 15 = 9 + (4 + 15)
   ○ 13 + 15 = 15 + 13
   ○ 13 + 15 = 28

6. ○ (10 + 9) + 8 = 10 + (9+ 8)
   ○ 19 + 8 = 8 + 19
   ○ 19 + 8 = 27
   ○ 27 = 19 + 8

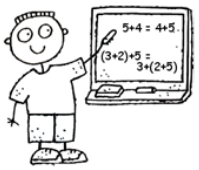
7. ○ 20 + 15 = 15 + 20
   ○ 20 + 15 = 35
   ○ 35 = 20 + 15
   ○ (12 + 8) + 15 = 12 + (8 + 15)

8. ○ 18 + 3 = 21
   ○ 21 = 18 + 3
   ○ (4 + 14) + 3 = 4 + (14 + 3)
   ○ 18 + 3 = 3 + 18

Properties of Addition Worksheet 1

Properties of Addition

Worksheet 1



The **commutative property of addition** is the rule which states that the order in which the numbers of an expression are combined does not affect the outcome.
Example: 3 + 5 = 5 + 3

The **associative property of addition** is the rule which states that the grouping of numbers in an expression does not affect the outcome.
Example: (3 + 5) + 7 = 3 + (5 + 7)

Which equation shows the commutative property of addition?

1.
- ○ (3 + 4) + 3 = 3 + (4 + 3)
- ● 7 + 3 = 3 + 7
- ○ 7 + 3 = 10
- ○ 10 = 7 + 3

2.
- ● 9 + 4 = 4 + 9
- ○ 9 + 4 = 13
- ○ 13 = 9 + 4
- ○ (5 + 4) + 4 = 5 + (4 + 4)

3.
- ○ 8 + 5 = 13
- ○ 13 = 8 + 5
- ○ (6 + 2) + 5 = 6 + (2 + 5)
- ● 8 + 5 = 5 + 8

4.
- ○ 8 = 6 + 2
- ○ (2 + 4) + 2 = 2 + (4 + 2)
- ● 6 + 2 = 2 + 6
- ○ 6 + 2 = 8

Which equation shows the associative property of addition?

5.
- ○ 10 = 6 + 4
- ● (5 + 1) + 4 = 5 + (1 + 4)
- ○ 6 + 4 = 4 + 6
- ○ 6 + 4 = 10

6.
- ● (3 + 2) + 7 = 3 + (2 + 7)
- ○ 5 + 7 = 7 + 5
- ○ 5 + 7 = 12
- ○ 12 = 5 + 7

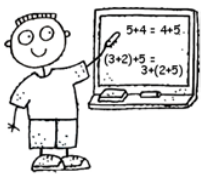
7.
- ○ 9 + 6 = 6 + 9
- ○ 9 + 6 = 15
- ○ 15 = 9 + 6
- ● (7 + 2) + 6 = 7 + (2 + 6)

8.
- ○ 8 + 3 = 11
- ○ 11 = 8 + 3
- ● (2 + 6) + 3 = 2 + (6 + 3)
- ○ 8 + 3 = 3 + 8

Properties of Addition Worksheet 2

Properties of Addition

Worksheet 2



The **commutative property of addition** is the rule which states that the order in which the numbers of an expression are combined does not affect the outcome.
Example: 3 + 5 = 5 + 3

The **associative property of addition** is the rule which states that the grouping of numbers in an expression does not affect the outcome.
Example: (3 + 5) + 7 = 3 + (5 + 7)

Which equation shows the commutative property of addition?

1.
- ○ (25 + 5) + 8 = 25 + (5 + 8)
- ● 25 + 5 = 5 + 25
- ○ 25 + 5 = 30
- ○ 30 = 25 + 5

2.
- ● 18 + 7 = 7 + 18
- ○ 18 + 7 = 25
- ○ 25 = 18 + 7
- ○ (9 + 9) + 7 = 9 + (9 + 7)

3.
- ○ 14 + 9 = 23
- ○ 23 = 14 + 9
- ○ (7 + 7) + 9 = 7 + (7 + 9)
- ● 14 + 9 = 9 + 14

4.
- ○ 32 = 15 + 17
- ○ (9 + 6) + 17 = 9 + (6 + 17)
- ● 15 + 17 = 17 + 15
- ○ 15 + 17 = 32

Which equation shows the associative property of addition?

5.
- ○ 28 = 13 + 15
- ● (9 + 4) + 15 = 9 + (4 + 15)
- ○ 13 + 15 = 15 + 13
- ○ 13 + 15 = 28

6.
- ● (10 + 9) + 8 = 10 + (9+ 8)
- ○ 19 + 8 = 8 + 19
- ○ 19 + 8 = 27
- ○ 27 = 19 + 8

7.
- ○ 20 + 15 = 15 + 20
- ○ 20 + 15 = 35
- ○ 35 = 20 + 15
- ● (12 + 8) + 15 = 12 + (8 + 15)

8.
- ○ 18 + 3 = 21
- ○ 21 = 18 + 3
- ● (4 + 14) + 3 = 4 + (14 + 3)
- ○ 18 + 3 = 3 + 18