

September 8

You Need:

- 1.) Your Binder
- 2.) Pencil
- 3.) Calculator

Agenda:

- 1.) POD
- 2.) review 1-2
- 3.) Quiz 1-2
- 4.) Start 1-3

POD

Carlos has three quarters, two nickels, and three pennies. How much money does he have?

P	PLEASE	→	Parenthesis
E	EXCUSE	→	Exponents
M	MY		Multiplication
D	DEAR		Division
A	AUNT		Addition
S	SALLY		Subtraction

Math IV Lesson 3

Order of Operations

P- parenthesis
 E- Exponents
 M- Multiplication
 D - Division
 A- Addition
 S- Subtraction

Example:

$$30 + 24 \div 6 - 2$$

$$30 + 4 - 2$$

$$32$$

$$7 \cdot 3^2 - (5 + 6)$$

$$7 \cdot 3^2 - (5 + 6)$$

$$7 \cdot 3^2 - 11$$

$$7 \cdot 9 - 11$$

$$63 - 11$$

$$(52)$$

$$\frac{24 + 12}{13 - 4} \div \frac{36}{9} \div$$

$$(9)$$

$$40 \div 32 \div 8 \cdot 2$$

$$40 \div 4 \cdot 2$$

$$40 \div 8$$

$$5$$

$$6 \cdot 4^2 - (7 + 9)$$

$$6 \cdot 4^2 - (7 + 9)$$

$$6 \cdot 4^2 - 16$$

$$6 \cdot 16 - 16$$

$$96 - 16$$

$$(80)$$

$$\frac{27 + 18}{12 - 3} = \frac{45}{9}$$

$$(5)$$

Example:

$$30 + 24 \div 6 - 2$$

$$7 \cdot 3^2 - (5 + 6)$$

$$3^2 - (5 + 6)$$

$$3^2 - 11$$

$$9 - 11$$

$$(-2)$$

Solve each expression

1. $34 - 10 + 4 \cdot 2$

$$34 - 10 + 4 \cdot 2$$

$$34 - 10 + 8$$

$$32$$

2. $(53 - 8) \div 5$

$$(53 - 8) \div 5$$

$$45 \div 5$$

$$9$$

3. $4 \cdot 5^2 + 7$

$$4 \cdot 5^2 + 7$$

$$4 \cdot 25 + 7$$

$$100 + 7$$

$$107$$

4. $\frac{16 + 14}{10 - 5}$

$$\frac{16 + 14}{10 - 5} = \frac{30}{5}$$

$$(6)$$

5. $7 + 45 \div 9$

$$7 + 45 \div 9$$

$$7 + 5$$

$$12$$

6. $4^3 + (15 - 7)$

$$4^3 + (15 - 7)$$

$$4^3 + 8$$

$$64 + 8$$

$$72$$

7. $8 + 32 \div 4 \cdot 5$

$$8 + 32 \div 4 \cdot 5$$

$$8 + 8 \cdot 5$$

$$8 + 40$$

$$48$$

$$\frac{48}{3}$$

8. $\frac{10 \cdot 4}{14 - 9} \div$

$$\frac{10 \cdot 4}{14 - 9} \div$$

$$\frac{40}{5} \div$$

$$(8)$$

9. $9 + 3(5)$
 $9 + 15$
 24

10. $24 - 30 \div 2$

11. $9 + 45 \div 9$

12. $21 - 14 + 5 \cdot 2$

13. $8 \div (8 - 4)$

14. $11 + 3(19 + 2)$

15. $2 + 6(3 + 10)$

16. $14 \cdot (13 - 7)$
 $14 \cdot 6$
 84

17. $\frac{54 + 18}{2 \cdot 4}$

$\frac{72}{8}$
 $\frac{54 + 18}{2 \cdot 4} = 9$

18. $\frac{18 + 10}{7 - 3}$

19. $\frac{51 - 9}{11 - 4}$

20. $\frac{9 \cdot 5}{3 + 6}$

$\frac{9 \cdot 5 - 45}{3 + 6} = \frac{45 - 45}{9} = 0$

Evaluate each expression when $a = 2$, $b = 6$, and $c = 12$.

21. $3b + 7$

22. $(2a + c) \div 2$

23. $3(b - a^2) + 16$

24. $\frac{36 + c}{b - a}$

Evaluate each expression when $a = 2$, $b = 5$, and $c = 4$.

25. $9 + 7a$

26. $8c - 13$

27. $(14 - a) \cdot c$

28. $b + c^2 \div a + 4$

29. $81 - (b + 9) + a^2$

30. $65 \div b - a + 6$

31. $\frac{b + 19}{a + 4}$

32. $\frac{15c}{1 + b}$

September 9

You Need:

- 1.) Your Binder
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Agenda:

- 1.) PEMDAS work
- 2.) 1-3 work

POD

Carlos has three quarters, two nickels, and three pennies. How much money does he have?

Benson's Quiz

Name _____

Matching:

What is the phrase we use to remember order of operations

- | | |
|----------|-----------|
| 1. _____ | A. Aunt |
| 2. _____ | B. Dear |
| 3. _____ | C. Excuse |
| 4. _____ | D. My |
| 5. _____ | E. Please |
| 6. _____ | F. Sally |

What is the order of operations

- | | |
|----------|-------------------|
| 1. _____ | A. Subtraction |
| 2. _____ | B. Parenthesis |
| 3. _____ | C. Multiplication |
| 4. _____ | D. Exponents |
| 5. _____ | E. Division |
| 6. _____ | F. Addition |

September 12

You Need:

- 1.) Your Binder
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- 3.) Calculator

Agenda:

- 1.) Review 1-3
- 2.) 1-3 worksheet A

POD

Patty has 64 crayons. She buys 8 more. How crayons does she have now?

$$64 + 8 = 72$$

September 13

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Agenda:

- 1.) Review 1-3
- 2.) 1-3 worksheet A

POD

James and Marla each have a bag of marbles. James has 229 marbles. Marla has 455 marbles. How many more marbles does Marla have than James?

$$455 - 229$$

$$226$$

Math I to IV Section 1 Lesson 3 Worksheet A

Name _____

1. $80 - 2 \times 7 =$

$$80 - 14$$

$$66$$

2. $7 + 9 \times 6 =$

$$7 + 54$$

$$61$$

3. $6 \times 1 + 3 =$

$$6 + 3$$

$$9$$

4. $45 - 2 \times 6 =$

$$45 - 12 = 33$$

5. $7 \times 1 + 1 =$

$$7 + 1$$
$$8$$

6. $2 + 7 \times 8 =$

$$2 + 56$$

$$58$$

7. $6 \times 4 + 6 =$

$$24 + 6 = 30$$

8. $1 \times 7 - 6 =$

$$7 - 6$$
$$1$$

9. $5 + 9 \times 6 =$

$$5 + 54$$

$$59$$

10. $21 - 2 \times 3 =$

$$21 - 6$$

$$15$$

11. $3 \times 3 - 7 =$

$$9 - 7$$

$$2$$

12. $84 - 2 \times 7 =$

$$84 - 14$$

$$70$$

13. $2 \times 8 - 2 =$

$$16 - 2$$
$$14$$

14. $2 \times 3 - 3 =$

$$6 - 3$$

$$3$$

15. $20 - 2 \times 3 =$

$$20 - 6$$

$$14$$

16. $11 - 29 \times 4 + 13$

$$11 - 116 + 13$$
$$= 92$$

17. $29 + 26 \times 3 + 18$

$$29 + 78 + 18$$
$$125$$

18. $23 + 26 - 14 \div 1$

$$23 + 26 - 14$$
$$= 35$$

19. $10 - 23 \times 4 - 19$

20. $10 - 19 - 15 \div 5$

21. $2 \times 7 - 23 - 30$

22. $4 \times 3 \times 5 \div 3$

23. $6 \times 6 \times 4 - 10$

24. $4 \times 3 \div 1 \div 6$

25. $3 \times 4 \times 4 + 5$

26. $4 + 9 + 2 \times 2$

27. $3 \times 2 + 8 \times 2$

28. $31 \div 1 + 7 \times 6$

29. $4 \times 4 \times 3 - 5$

30. $8 + 3 \times 2 \times 6$

September 14

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Agenda:

- 1.) Review 1-3
- 2.) 1-3 worksheet A

POD

There are eight cars in the garage. Tom will place new tires on each car. How many tires will Tom need?

$$8 \times 4 = 32$$

Name _____

Lesson 3 Worksheet b

1. $(9 - 4 + 6)$

$$9 - 4 + 6$$

$$11$$

2. $(7 + 1) \times (6 + 6) - 6$

$$8 \times 12 - 6$$

$$96 - 6$$

$$90$$

3. $(6^2 \times 2 + 1) - 3 - 3$

$$(36 \times 2 + 1) - 3 - 3$$

$$(72 + 1) - 3 - 3$$

$$73 - 3 - 3$$

$$66$$

4. $(9^2 - 9 \times 6)$

$$9^2 - 9 \times 6$$

$$81 - 9 \times 6$$

$$81 - 54$$

$$27$$

5. $(4^2 \times 8) + 3 \times 1$

$$4^2 \times 8 + 3 \times 1$$

$$16 \times 8 + 3 \times 1$$

$$128 + 3$$

$$131$$

6. $7 + 3 - (3 + 2 - 1)$

7. $(9 + 2) \times (5^2 \times 1 - 1)$

$$(9 + 2) \times (25 \times 1 - 1)$$

$$11 \times (25 - 1)$$

$$11 \times 24$$

$$264$$

8. $(5 - 1^2 \times 1) + 4 - 2$

$$(5 - 1 \times 1) + 4 - 2$$

$$5 - 1 + 4 - 2$$

$$6$$

9. $(3 \times 3^2) \times 9$

$$3 \times 3^2 \times 9$$

$$3 \times 9 \times 9$$

$$273$$

10. $(4^2 + 7^2) \div 5 \times 1$

11. $5^2 - (4^2 - 8 - 6) - 4$

12. $(2 + 8) \times 2$

$$10 \times 2$$

$$20$$

13. $(9^2 + 9 + 4^2 \times 7)$

14. $(7 \times 7^2 \div 7)$

$$7 \times 7^2 \div 7$$

$$7 \times 49 \div 7$$

$$343 \div 7$$

$$49$$

15. $(5 + 3) - 7$

$$16. (2 \times 5^2 - 8 \div 2)$$

$$17. 6 \times (4 \div 1^2) \times 2$$

$$18. 8 \times (8 \times 5 \times 5)$$

$$19. (6^2 \div 1) \times 2$$

$$20. (5 + 5 \times 5) + 5 - 9$$

$$21. (2 + 9 - 9) + 7 \times 7$$

$$22. (6 + 6 \times 6)$$

$$23. (9^2 + 1) \div 2$$

$$24. (7 + 3) + 4$$

$$25. 1 \times (3^2 \times 8^2 \div 2)$$

$$26. (4^2 + 7 \times 5 - 9) \times 2$$

$$27. 9^2 - (2 + 9^2) + 1 \times 6$$

$$28. (7 \times 5^2 + 1) + 7 - 3$$

$$29. 9 + (6 \times 9^2) + 3^2 - 3$$

$$30. 4 \times (5 + 1) - 4$$

September 15

You Need:

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- 3.) Calculator

Agenda:

- 1.) Review 1-3
- 2.) 1-3 worksheet A

POD

Wendy has 36 books. She has a bookshelf with 6 shelves on it. If Wendy puts the same number of books on each shelf, how many will be on each shelf?

$$36 \div 6$$

$$\underline{6}$$