

September 6

You Need:

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

Agenda:

- 1.) POD
- 2.) Section 1-2

POD

James has 28 marbles. He puts them into 4 bags. He puts the same number of marbles in each bag. How many marbles are in each bag?

$$\begin{array}{r} 28 \\ \div 4 \\ \hline 7 \end{array}$$

Math IV Lesson 2

Multiplication and Division Expressions

Review:

Circle the variable: $6x$ $3x + 7$ $4 + 3x$

Evaluate the expression when $x = 3$ and $y = 5$

$$\begin{array}{c} x + 4 \\ 3 + 4 \\ 7 \end{array}$$

$$\begin{array}{c} y - 2 \\ 5 - 2 \\ 3 \end{array}$$

$$\begin{array}{c} x + y \\ 3 + 5 \\ 8 \end{array}$$

Warm-Up Exercises

Find each answer.

1. 23×6

2. 48×47

3. $4506 \div 6$

4. $6372 \div 9$

Multiplying Expressions

In algebra, it is important to realize that you can show both multiplication and division in a number of different ways.

These represents multiplication.

times sign
 7×5

raised dot
 $7 \cdot 5$

parentheses
 $(7)5$ or $7(5)$ or $(7)(5)$

These represents Division.

division sign
 $42 \div 7$

division house
 $7 \overline{)42}$

fraction bar
 $\frac{42}{7}$

* when a number and variable are together they are multiplying
- for example $2x$ means 2 times x

~~$2x$~~ = 2 times x

$6x$ 18A

Example:

Evaluate $3x$ When $x = 5$ 15

$$3 \times 5 \text{ or } 3 \cdot 5 \text{ or } (3)(5)$$

Evaluate $2xb$ When $b = 3$ 6Evaluate $5 \cdot a$ When $a = 4$ 20

$$5 \cdot 4$$

Evaluate $12 \div y$ When $y = 6$ 2

$$12 \div 6$$

~~Evaluate $15 \div y$ When $y = 3$ _____~~Evaluate $\frac{8}{x}$ When $x = 2$ 4

$$\frac{8}{2}$$

Evaluate each expression when $a = 5$, $b = 3$, and $c = 8$

1. $7a$ 35
 $7 \times 5 = 35$

2. $22 \cdot b$ 66
 $22 \cdot 3 = 66$

3. $35 \div a$ 7
 $35 \div 5 = 7$

4. $c \sqrt{24}$ 3

$$8 \sqrt{24}$$

5. ab 15
 $5 \cdot 3 = 15$

6. $\frac{c}{b}$ 2.6

$$\frac{8}{3}$$

Evaluate each expression when $w = 6$, $x = 16$, $y = 63$, and $z = 18$

7. $7x$ 112
 $7(16)$

8. $(2)(w)$ 12
 2×6

9. $7y$ 441

$$7 \cdot 63$$

10. $30 \div w$ 5
 $30 \div 6 = 5$

11. $\frac{y}{9}$ 7
 $63 \div 9 = 7$

12. $w \sqrt{30}$ 5
 $6 \sqrt{30}$

13. $\frac{48}{x}$ 3
 $48 \div 16 = 3$

14. wx 96
 $6 \cdot 16 = 96$

15. xy 1008
 $16 \cdot 63 = 1008$

16. $z \div w$ 3
 $18 \div 6 = 3$

17. $y \div x$ 3.93
 $63 \div 16 = 3.93$

September 7

You Need:

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

Agenda:

- 1.) POD
- 2.) WS 1-2a

POD

Matthew has 8 pencils. Three of them do not have erasers on the end. What fraction of the pencils do not have erasers on the end?

$\frac{3}{8}$ 226

~~$\frac{8}{3}$ $2\frac{2}{3}$ 2.6~~

Math I-IV Lesson 2 Worksheet A

Name: _____

Evaluate each expression when $a = 5$, $b = 32$, $c = 15$, and $d = 48$ 1. $3b$ 962. $4b$ 1283. $3b$ 4. $30c$ 4505. $c + 5$ 36. $5b$ 1607. $60 \div 15$ 48. $45 \div a$ 99. $70 \div c$ 4.610. $48 \div 3$ 1611. $1.5d$ 7212. $96 \div b$ 313. $1.5b$ 4814. $10d$ 48015. $288 \div d$ 616. $7a$ 3517. $c + a$ 18. ad 540240 $A = 5$ $b = 32$ $C = 15$ $d = 48$

Quiz Tomorrow !!!!
September 8