

BE-1A THURSDAY 8-16-07

- ① Simplify $\frac{32}{48}$
- ② CONVERT $\frac{32}{48}$ to a decimal.
- ③ What per cent is $\frac{32}{48}$?
- ④ Convert 0.004 to a fraction.
- ⑤ Name the place value of the 4:

8431.0

Have homework out & READY FOR
review. — Page 8 # 21 to 28.

Grouping Symbols

()

PARENTHESES

* KNOW
HOW TO
SPELL

[]

BRACKETS

{ }

BRACES

* KNOW HOW
TO DRAW

—

FRACTION BAR, USED TO
SHOW BOTH DIVISION
AND GROUPING

"NESTED" Grouping Symbols $\Rightarrow$ means
a grouping symbol inside ANOTHER.

Preferred order of nesting:

{ [()] }

Do NOT use $\times$ for multiplication in Algebra. Use a $\cdot$ or use

NOTHING! $3x$ means 3 times x .

$3(x)$ means 3 times x .

$3 \cdot x$ means 3 times x .

preferred

This is called "implied" multiplication

↓
hinted at

VARIABLE

symbols, usually letters, used to represent one or more VALUES.

FAVORITE variable is x

HOWEVER, when given a choice, and you often will have a choice, USE MEANINGFUL VARIABLE NAMES!

ex) d for distance, not x

Ch. 1-1 Variables AND Expressions

Algebraic expression

Ex

$$5x$$

$$3x - 7$$

$$4 + \frac{p}{8}$$

$$y = mx + b$$

$$E = mc^2$$

Numbers AND/OR
Variables AND
MATH OPERATORS

$+$, $-$, $\cdot$, $\div$

NOTE, in

Algebra the fraction
bar is the most
common way TO SHOW
division.

Did I mention:

USE MEANINGFUL VARIABLE NAMES.

$$A = lw$$

Area = length times width

NOT $x = yz$

4.

TAKING A verbal Expression AND MAKING
AN Algebraic Expression:

more than +

less than -

of •

product •

WATCH OUT: 7 less x means $7 - x$

7 less than x means $x - 7$

EXponents ARE ALSO called powers

ex) 4^5 is 4 to the fifth power

EVALUATE means "DO WORK until you
find A VALUE"

LET'S TRY MAKING some Algebraic Expressions

- ① Eight more than a number N

$$\underbrace{\hspace{2cm}} \quad \underbrace{\hspace{2cm}}$$

$$8 + N$$

- ② 7 less the product of 4 and a number x

$$\underbrace{\hspace{1cm}} \quad \underbrace{\hspace{1cm}} \quad \underbrace{\hspace{4cm}}$$

$$7 - 4x$$

- ③ one third of the size of original area a

$$\underbrace{\hspace{2cm}} \quad \underbrace{\hspace{4cm}}$$

$$\frac{1}{3} \cdot a$$

$$\boxed{\frac{1}{3}a} \text{ or } \frac{1}{3} \cdot \frac{a}{1} = \frac{1a}{3} = \boxed{\frac{a}{3}}$$

- ④ the product of 7 and m to the 5th power

$$\underbrace{\hspace{2cm}} \quad \underbrace{\hspace{2cm}}$$

$$7 \cdot m^5$$

$$\boxed{7m^5}$$

Ex 1 and 2 Pg 6 and 7

You can go backwards $\Rightarrow$ Algebraic
to verbal

① $4m^3$

the product of 4 and m to the 3rd power

② $c^2 + 21d$

the sum of c squared and
the product of 21 and d

Ex 4 Pg 7

Your turn: Pg 8 # 11-16

Quiz: • Fractions to decimals.

Fri. • Simplify fractions.

• Decimals to fractions.

• Place Value

• Exponents

• Verbal to Algebraic Expressions