

BE-Alg 1 TUESDAY 8-16-11

- 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 EACH place value:

123.456

HAVE FORMS READY TO HAND IN.

1	2	3	.	4	5	6
hundreds	tens	ones		tenths	hundredths	thousandths
100	20	3	.	$\frac{4}{10} = \frac{2}{5}$	$\frac{5}{100} = \frac{1}{20}$	$\frac{6}{1000} = \frac{3}{500}$
				.4	.05	.006

Simplify fractions first !!!

* EX) → CONVERT $\frac{2}{5}$ to a decimal
by long division

→ *M ① "MOON THE FRACTION" ⇒ {bottom
OUTSIDE
OUTSIDE

$$5 \overline{) 2}$$

② ADD 2 zeros AND 2 decimals

$$5 \overline{) 2.00}$$

③ ignore decimals, does 5 fit into 2? No - so put a 0 above it.
If it does fit, write down how many times, then multiply, subtract, bring down... rinse and repeat!

$$\begin{array}{r}
 0.40 \\
 5 \overline{) 2.00} \\
 \underline{- 20} \\
 00
 \end{array}
 = \boxed{0.4}$$

(*d)

Steps for showing work in this class:

① Write ORIGINAL problem

② Show WORK

③ BOX ANSWER

(*EX)

Convert $\frac{32}{48}$ to a decimal

$$\frac{32}{48} = \frac{4}{6} = \frac{2}{3}$$

$$\begin{array}{r} 0.\overline{6} \\ 3 \overline{) 2.00} \\ \underline{18} \\ 20 \end{array}$$

$$\boxed{\frac{32}{48} = 0.\overline{6}}$$

(*d)

All fractions will be either

Repeating decimals or terminating decimals

$$\text{EX) } \frac{1}{3} = .\overline{3}$$

$$\text{EX) } \frac{1}{2} = 0.5$$

$\frac{\text{integer}}{\text{integer}} = \text{ratio(nal) number}$
 $\Downarrow$
 fraction

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

HOMEWORK:

Simplify and convert to a decimal. Use long division, show work.

① $\frac{3}{4}$

② $\frac{14}{16}$

③ $\frac{7}{8}$

④ $\frac{24}{36}$

Write an algebra expression for:

⑤ 12 less than 5 times a number x .

⑥ the product of 5 and y squared.

⑦ 4 more than c to the eighth power.

On a separate sheet of paper write:

- Your math likes/dislikes/strengths/weaknesses.
- Your math class likes/dislikes.