

BE-1A WEDNESDAY 8-15-07

Simplify:

① $\frac{8}{24}$

② $\frac{12}{48}$

③ $\frac{6}{1}$

Convert to a decimal:

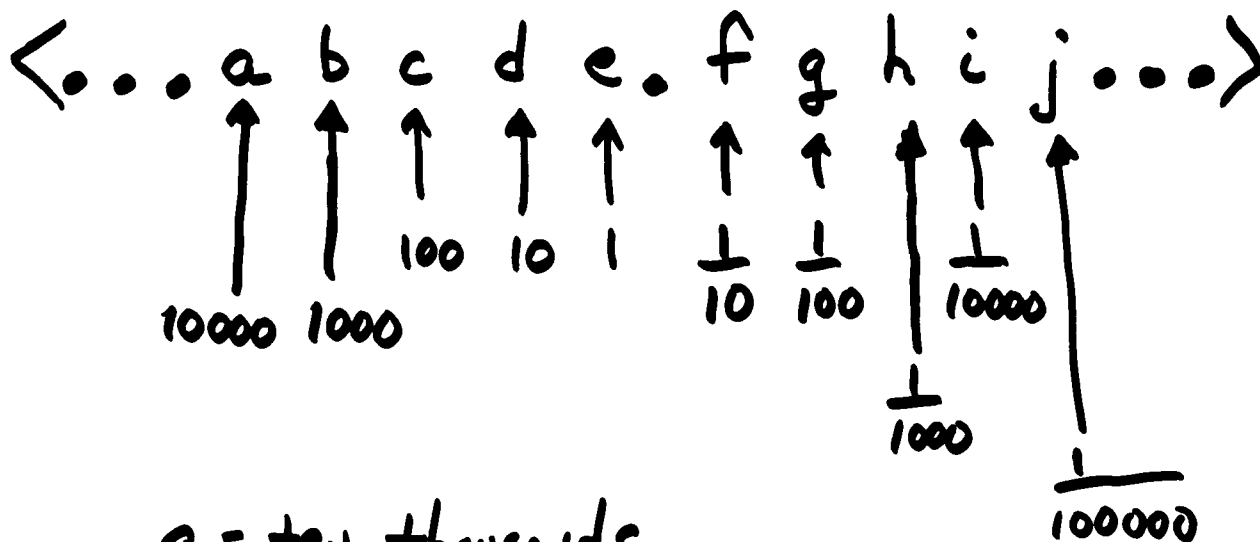
④ $\frac{2}{18}$

⑤ $\frac{14}{28}$

Note: NOONE HAS CONVERTED $\frac{1}{19}$ or $\frac{1}{29}$
to a decimal yet.

PLACE VALUE

NAME EACH PLACE VALUE



a = ten thousands

b = thousands

c = hundreds

d = tens

e = ones

f = tenths

g = hundredths

h = thousandths

$$\begin{array}{rcl}
 426.5 & = & 4 \text{ hundreds} = 400 \\
 & & 2 \text{ tens} = 20 \\
 & & 6 \text{ ones} = 6 \\
 & & 5 \text{ tenths} = \frac{5}{10} = \frac{1}{2} \\
 & & \hline
 & & 426\frac{1}{2} \\
 & & \text{or} \\
 & & 426.5
 \end{array}$$

WRITE AS A FRACTION:

$$0.2 = \frac{2}{10} = \frac{1}{5}$$

$$0.31 = \frac{31}{100}$$

$$4.506 = 4\frac{506}{1000} = 4\frac{253}{500}$$

NAME THE PLACE VALUE OF
the underlined number:

5026.458 tens

5026.458 thousandths

5026.458 tenths

5026.458 ten thousands

WRITE AS A decimal:

$$\frac{2}{10}$$

$$\frac{4}{1000}$$

$$\frac{24}{100}$$

per cent

↓ ↓
per hundred

• CENTURY = 100 years

• cents = 100 cents
 dollar

$$\text{EX) } 0.31 = \frac{31}{100} = 31\%$$

EX) WHAT per cent is $\frac{3}{4}$?

$$\frac{3}{4} = 0.75 = 75\%$$

Just move decimal place over 2 times to change a decimal to a per cent. Move to make number bigger. Reverse to change % to decimal.

$$\text{EX) } 0.24 = 24\%$$

$$36\% = .36$$

Ex) About one of eight people at SMHS have red hair.

What per cent of people at SMHS have red hair?

$$\frac{1}{8} = 0.125$$

$$\begin{array}{r} 8 \overline{) 1.000} \\ \underline{-8} \\ 20 \\ \underline{16} \\ 40 \end{array}$$

$\therefore$ 12.5% of people at SMHS have red hair

What does 5^2 mean?

$$5^2 = 5 \cdot 5 = 25$$

base^{exponent}

means multiply the base times itself an exponent number of times

$$3^1 = 3$$

$$3^2 = 3 \cdot 3 = 9$$

* MOST OFTEN MISSED
EXPONENT, IT IS 9
NOT 6!

$$3^3 = 3 \cdot 3 \cdot 3 = 27$$

$$3^4 = 3 \cdot 3 \cdot 3 \cdot 3 = 81$$

$$\begin{array}{c} \vee \quad \vee \\ 9 \cdot 9 = 81 \end{array} \checkmark$$

$$3^5 = 3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 = 243$$

$$\underbrace{3 \cdot 3 \cdot 3 \cdot 3}_{81} \cdot 3 = 243 \checkmark$$

HW: Read Ch 1-1 Page 8 # 21-28