

# Math 4a HW3

#1.  $36:5 = 7R(1)$   
 $43:4 = 10R(3)$   
 $75:3 = 25R(0)$   
 $126:5 = 25R(1)$

#2.  $4 \cdot 12 = 48$ , 4 and 12 are factors  
 $7 \cdot 11 = 77$  7 and 11 are factors  
 $15 \cdot 20 = 300$  12 and 20 are factors.

#3.  $1932:17 = x R(11) \Rightarrow 1932 = x \cdot 17 + 11$   
 $261 = x \cdot 17 + 6$  (\* represent a quotient, we don't know it).  
 $1932 + 261 = x \cdot 17 + x \cdot 17 + 11 + 6$   
 $\underbrace{\hspace{10em}}_{= 17}$   
The sum will be divisible.

# 21. 1247.999

999 is divisible by 3 ( $9+9+9=27$ )  
So, the whole product will be divisible.

# 5.

a is divisible by 5 means that 5 is a factor of a.

a.b also will be divisible by 5.

# 6.

$$\begin{array}{r} \underline{79094} \\ 9 \overline{) 71846} \\ \underline{-63} \\ 81 \\ \underline{-81} \\ 84 \\ \underline{81} \\ 36 \\ \underline{36} \\ 0 \end{array}$$

#7.

1.  $93 - 62 = 31$  student in the 3<sup>rd</sup> grade.
2.  $64 - 31 = 33$  students in the 2<sup>nd</sup> grade.
3.  $62 - 33 = 29$  students in the 1<sup>st</sup> grade.

#8.

a	56	18	36	70	72
b	8	6	4	5	3
a · b	448	108	144	350	216
a : b	7	2	9	14	24

#9.  $45 \cdot 4 + 30 \cdot 2 + 35 \cdot 2 + 90 = 400 \text{ cm (4m)}$ .

