

Name: _____

Date: _____

Math 8 Homework: Section 1.3b strategies for Multiplying

1. Multiply the following without a calculator. Try to use mental math and strategies shown in class:

a) 36×15	b) 18×45	c) 16×25	d) 24×35
e) 49×20	f) 12×75	g) 24×55	h) 99×20
i) 32×65	j) 54×15	k) 36×16	l) 49×4
m) $12 \times 25 \times 18$	n) $21 \times 15 \times 12$	o) $24 \times 55 \times 9$	p) $45 \times 36 \times 11$
q) 12×99	r) 7×999	s) 27×99	t) 14×99
u) 14×99	v) 14×99	w) 5×999	x) 18×9999

2. Multiply each of the following using the strategy that was taught in class:

a) $\begin{array}{r} 235 \\ \times 24 \\ \hline \end{array}$	b) $\begin{array}{r} 123 \\ \times 19 \\ \hline \end{array}$	c) $\begin{array}{r} 715 \\ \times 83 \\ \hline \end{array}$
d) $\begin{array}{r} 8935 \\ \times 73 \\ \hline \end{array}$	e) $\begin{array}{r} 7347 \\ \times 173 \\ \hline \end{array}$	f) $\begin{array}{r} 9477 \\ \times 444 \\ \hline \end{array}$

3. Suppose you multiply five different negative integer, will the product be positive or negative? Explain:

4. If we multiply six different negative integers, will the product be positive or negative? Explain

5. Tom has six kids and he plans to give each one \$2.25 for allowance each day. How much allowance will he be giving all his kids in 30 days? (No Calculators)

6. A newborn baby averages about 8 diapers every day. If a neighborhood has 15 babies, how many diapers will they use in 99 days?

7. Challenge: In the computation shown, X , Y , Z represent a different digit respectively. Determine the value of X .

$$\begin{array}{r} X Y \\ \times Z 6 \\ \hline 3 1 2 \\ 3 1 2 \\ \hline 3 4 3 2 \end{array}$$