Name: $\qquad$ Date: $\qquad$

## Mid-Module 3 Review Sheet

1) Draw an area model to solve the following. Find the value of the following expressions.
a) $40 \times 80$
b) $4 \times 273$
2) Use any place value strategy to multiply.
a) $5 \times 46$
b) $3 \times 429$
c) $6 \times 1,609$
d) $3,634 \times 6$

Solve using a model or equation. Show your work and write your answer as a statement.
3) Northern Elementary School has a field with an area of 35 square meters. The length of the field is 7 meters. The field at Southern Elementary School is four times as long and two times as wide.
a) What is the width of Northern Elementary School's field? Then, draw and label the measurements of the field at Southern Elementary School.

Northern Elementary School Field

b) What is the area of the field at Southern Elementary School?
c) The two schools want to put up a fence around their fields. How many more meters of fencing will Southern Elementary need than Northern Elementary?
d) Northern Elementary School has a sandbox that measures 3 yards by 12 yards on their field. The dimensions of Southern Elementary School's sandbox are twice as large. What is the area of Southern Elementary School's sandbox? Write a multiplication equation to solve. Assess the reasonableness of your answer.
4) Mrs. Ellis orders new pens and pencils for her classes. She orders 8 boxes of pens with 63 pens in each box. She orders 7 boxes of pencils with I 2 pencils in each box. How many new pens and pencils will Mrs. Ellis order? Is your answer reasonable? Explain.
5) The Bakery baked oatmeal cookies on a pan that holds 8 rows of 13 cookies. They then baked four times the amount of chocolate chip cookies
 as oatmeal cookies. How many oatmeal and chocolate chip cookies will the bakery have?


Mid-Module 3 Review Sheet ANSWER KEY
I) Draw an area model to solve the following. Find the value of the following expressions.
b) $4 \times 273=1,092$
a) $40 \times 80=3,200$

2) Use any place value strategy to multiply.

a) $5 \times 46$
b) $3 \times 429$

$$
\begin{array}{r}
+3 \\
\times 46 \\
230
\end{array} \begin{array}{r}
\times 46 \\
\hline 20 \\
\hline \frac{500}{230}
\end{array}
$$

c) $6 \times 1,609$

$$
\begin{array}{r}
x 1609 \\
\times \quad 64 \\
+\quad 00 \\
3600 \\
6000 \\
\hline 9,654
\end{array}
$$

$$
\begin{array}{r}
429 \\
\times \quad 3 \\
\hline+\quad 27 \\
1200 \\
\hline 1287 \\
\text { d) } 3,634 \times 6
\end{array}
$$

$$
\begin{array}{r}
x^{3634} \\
\hline 24 \\
+\quad 180 \\
3600 \\
18000 \\
\hline 21,804
\end{array}
$$

Solve using a model or equation. Show your work and write your answer as a statement.
3) Northern Elementary School has a field with an area of 35 square meters. The length of the field is 7 meters. The field at Southern Elementary School is four times as long and two times as wide.
a) What is the width of Northern Elementary School's field? Then, draw and label the measurements of the field at Southern Elementary School.

Northern Elementary School Field


Southern

b) What is the area of the field at Southern Elementary School?

$$
\begin{aligned}
& A=L \times W \\
& A=28 \times 10 \\
& A=280 \text { meters }^{2}
\end{aligned}
$$

c) The two schools want to put up a fence around their fields. How many more meters of fencing will Southern Elementary need than Northern Elementary?


Southern 28 m


| $P=S+S+S+S$ |  |
| :--- | :--- |
| $P=7+7+5+5$ | -76 |

$$
\begin{aligned}
& P=s+S+s+s \\
& P=28+28+10+10 \\
& P=56+20 \\
& P=76 \mathrm{~m}
\end{aligned}
$$

d) Northern Elementary School has a sandbox that measures 3 yards by 12 yards on their field. The dimensions of Southern Elementary School's sandbox are twice as large. What is the area of Southern Elementary School's sandbox? Write a multiplication equation to solve. Assess the reasonableness of your answer.

4) Mrs. Ellis orders new pens and pencils for her classes. She orders 8 boxes of pens with 63 pens in each box. She orders 7 boxes of pencils with | 12 pencils in each box. How many new pens and pencils will Mrs. Ellis order? Is your answer reasonable? Explain.


$$
63 \times 8=504
$$

$$
\begin{array}{r}
60 \times 8=480 \\
110 \times 7=\frac{770}{1,250}
\end{array}
$$


5) The Bakery baked oatmeal cookies on a pan that holds 8 rows of $T 3$ cookies. They then baked four times the amount of chocolate chip cookies as oatmeal cookies. How many oatmeal and chocolate chip cookies will the bakery have?

$$
\begin{aligned}
& \times 13 \\
& \frac{8104}{104} \frac{4}{416} \\
& \text { (oatmeal) }+\frac{104}{520}
\end{aligned}
$$



