End-of-Unit Assessment

1 Determine the product 375 × 47 using the standard algorithm.

ℹ **Show your thinking.**

Sample work shown.

$$
\begin{array}{r}
32 \\
53 \\
375 \\
\times\quad 47 \\
\hline
2{,}625 \\
+\ 15{,}000 \\
\hline
17{,}625
\end{array}
$$

answer: __17,625__

2 Determine the quotient 1,530 ÷ 34.

ℹ **Show your thinking.**

Sample work shown.

$$
\begin{array}{r}
34\overline{)1530} \\
-\ 680 \quad 20 \\
\hline
850 \\
-\ 680 \quad 20 \quad\Big| 45 \\
\hline
170 \\
-\ 170 \quad 5 \\
\hline
0
\end{array}
$$

answer: __45__

3 Select the number that is closest to the quotient 8,745 ÷ 3.

  A. 30

  B. 300

  C. 3,000

  D. 30,000

End-of-Unit Assessment (continued)

4 A school ordered 18 boxes of textbooks. There were 26 textbooks in each box. 36 textbooks were distributed to each classroom. Which equation can be used to solve for c, the number of classrooms that received textbooks?

  A. $c = (18 + 26) \div 36$ **B.** $c = 36 \div (18 \times 26)$

  C. $c = (18 \times 26) - 36$ **(D.)** $c = (18 \times 26) \div 36$

5 The area of a rectangular yard is 5,664 square feet and its length is 48 feet. What is its width in feet? **Sample work shown.**

i **Show your thinking.**

$$\begin{array}{r} 8 \\ 10 \\ 100 \\ 48\overline{)5664} \\ -4800 \\ \hline 864 \\ -480 \\ \hline 384 \\ -384 \\ \hline 0 \end{array}$$

$100 + 10 + 8 = 118$

answer: __118 feet__

6 Complete the sentence by selecting **ONE** correct answer to make the statement about taxes true.

  A. Income tax
  B. Payroll tax   is money that people pay to the local government
  (C.) Property tax
  D. Sales tax

based on the value of their home or land.

7 Clare's net income for the month of October is $3,542.88. The table below shows an incomplete budget.

Expense	Amount
rent	$850.71
food	$1,061.43
entertainment	$789.25
medical	$125.67
savings	

How much should Clare put in savings for the month of October to keep a balanced budget?

_____ $715.82 _____

8 What is the difference between net income and gross income?
Sample response shown.

Gross income is the full amount you receive before taxes, and net income is what you get to keep after paying taxes and other costs.

_____

End-of-Unit Assessment (continued)

For Problems 9 and 10, you can use this rubric to help you.
Place a check mark as you complete each part.

☐ Analyze the given information.

☐ Come up with a plan.

☐ Determine your solution.

☐ Justify your solution, using math language from the unit.

☐ Read your response. Does your solution make sense?

Diego started a new job and is deciding how to balance his budget.
His net income for the month of December is $2,465.76.

9 What changes should he make to balance his budget?
Sample response shown.

Diego's expenses are $200 more than his net income. He can reduce gifts and savings by $100 each to balance his budget.

Expense	Amount
rent	$975.63
utilities	$612.79
food	$587.63
gifts	$239.71
savings	$250.00

10 Diego has $200 in savings. He is planning to use a credit card to purchase a bike for $100. His friend Han says that he should use a debit card instead of a credit card. Why might Han think he should use a debit card instead? Sample response shown.

Han might think Diego should use a debit card instead of a credit card so he will not pay interest on the bike purchase. Diego has enough money in his savings to be able to purchase the bike using a debit card.