

Lesson 5 & 6 Quiz

Name: _____

1) Which expressions are equivalent to 647×39 ?

Circle all the correct answers.

- A $6(30 + 9) + 4(30 + 9) + 7(30 + 9)$
- B $600(30 + 9) + 40(30 + 9) + 7(30 + 9)$
- C $(647 \times 3) + (647 \times 9)$
- D $(600 \times 30) + (600 \times 9) + (40 \times 30) + (40 \times 9) + (7 \times 30) + (7 \times 9)$
- E $(6 \times 30) + (6 \times 9) + (4 \times 30) + (4 \times 9) + (7 \times 30) + (7 \times 9)$

2) Tasha wants to find the quotient of $1,026 \div 27$. She creates a table to show the products of 27 multiplied by different multiples of 10.

Multiple of 10	10	20	30	40	50	60
Product	270	540	810	1,080	1,350	1,620

3) A grocery store has 184 shelves for bottled goods. Each shelf can hold 27 bottles. How many bottles will the shelves hold in all?

Show your work.

Answer: _____ bottles

4) A soccer organization is going to spend \$2,990 to purchase all sweatshirts or all jackets for its players. Sweatshirts cost \$26 each. Jackets cost \$46 each. What is the greatest number of sweatshirts or jackets that the organization can purchase?

Show your work.

Answer: The organization can purchase _____ sweatshirts or _____ jackets.

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- 5) Janelle can drive an average of 295 miles on one tank of gas. How many miles can she drive on 16 tanks of gas?

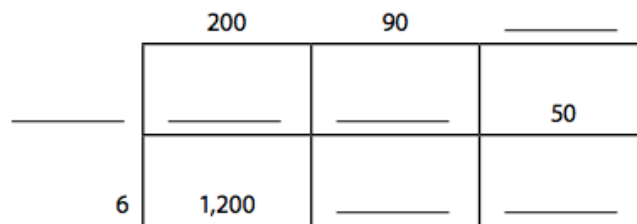
Part A

Sarah creates an area model to solve the problem.

Write a number on each blank to complete the area model.

Use the numbers in the box.

10	1	30	50	2,000	900
90	540	300	200	5,400	5



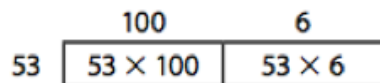
Part B

How many miles can Janelle drive on 16 tanks of gas?

Show your work.

Answer: _____ miles

- 6) Which equations can be represented by the model below?



Circle all the correct answers.

- | | |
|--------------------------------|--------------------------------|
| A $5,618 \div 106 = 53$ | D $5,618 \div 53 = 106$ |
| B $106 \div 53 = 2$ | E $106 \div 2 = 53$ |
| C $5,300 \div 53 = 100$ | F $5,300 \div 100 = 53$ |

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- 7) A jewelry shop makes and sells pearl necklaces. The shop has a total of 6,832 pearls. Each necklace has 16 pearls. Marvin says that the greatest number of necklaces the jeweler can make with all of the pearls in the shop is 682. Marvin's work is shown below.

$$\begin{array}{r}
 \underline{682} \leftarrow \text{quotient} \\
 \quad 2 \leftarrow \text{partial quotient} \\
 \quad 80 \leftarrow \text{partial quotient} \\
 \quad 600 \leftarrow \text{partial quotient} \\
 16 \overline{)6,832} \\
 \underline{-6,000} \\
 \quad 832 \\
 \underline{-800} \\
 \quad \quad 32 \\
 \underline{-32} \\
 \quad \quad \quad 0
 \end{array}$$

Explain why Marvin's answer is incorrect and how he can find the correct answer.

- 8) Write a number on each blank to complete two different multiplication problems.

$$\begin{array}{r}
 814 \\
 \times 4 \underline{\quad} \\
 \hline
 3 \underline{\quad} \underline{\quad} \underline{\quad} 8
 \end{array}$$

$$\begin{array}{r}
 814 \\
 \times 4 \underline{\quad} \\
 \hline
 3 \underline{\quad} \underline{\quad} \underline{\quad} 8
 \end{array}$$

- 9) A photographer wants to arrange all of her photographs into albums. Each album can hold 23 photographs. If the photographer has 4,052 photographs, how many albums will she need to separate the photos?

- 10) A jewelry company ordered 325 boxes of glass beads. They were 27 beads in each box. How many glass beads did the jewelry company order altogether?