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LONG DIVISION WITH REMAINDERS WORKSHEETS-II

1) Calculate the remainder using long division.

a) $1451 \div 25$

b) $7126 \div 13$

2) Divide 45 by 20 and write the values of quotient and remainder.

45 ÷ 20

Quotient

Remainder

3) On a highway, gas station is situated every 12 miles. If the highway is 608 miles then how many gas stations are there on the highway?



4) Fill in the blanks:

$$\begin{array}{r}
 \square 1 \square \\
 \hline
 52 \overline{) 16,422} \\
 \underline{-15} \\
 82 \\
 \underline{-\square 2} \\
 302 \\
 \underline{-2\square 0} \\
 \square 8
 \end{array}$$

5) Divide the following numbers by 17 by long division and write the quotient in the box.

a) 25438

b) 959

6) Solve:

$$13 \overline{) 35744}$$

7) Calculate the remainder after long division and verify your answer.

$$11062 \div 18$$

8) Match the following columns:

| Division Operation | Remainder |
|--------------------|-----------|
| 1. $2759 \div 14$ | a. 4 |
| 2. $8446 \div 21$ | b. 1 |
| 3. $975 \div 4$ | c. 3 |

9) In a flower vase, 7 flowers can be accommodated. If there are 2876 flowers. Then can you find out how many flowers will be in the last vase which is not full?



10) Find the remainder on dividing 742 by 3.

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- Gary Schwartz

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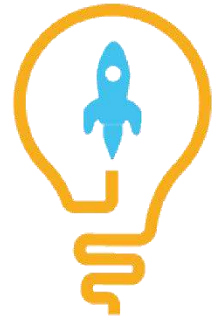
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

| | |
|-----|--------------------------------|
| 1) | a) 1 b) 2 |
| 2) | Quotient = 2; Remainder = 5 |
| 3) | 50 |
| 4) | 3, 5, 5, 6, 3 |
| 5) | a) 1496 b) 56 |
| 6) | Quotient = 2749; Remainder = 7 |
| 7) | 10 |
| 8) | 1--b; 2--a; 3--c |
| 9) | 6 |
| 10) | 1 |

FUN FACT

1. In English-speaking countries, division slash (\div) or division sign (\div) symbols are not used for long division, but instead constructs a tableau.
2. The modern algorithm adopted to solve long division was introduced by Henry Briggs c. 1600 A.D.
3. The horizontal bar of fractions, used to indicate division, introduced by the Arabs, although its use did not spread until 16th century.

