Unit 39 Word Problems Using Whole Numbers and Decimals

1. One uniform costs $59.95. What would uniforms for 25 players and 5 coaches cost?

Unknown:
total cost

Given:
cost per uniform = $59.95
number of players = 25
number of coaches = 5

Solution:
uniforms needed = 25 + 5 = 30
total cost = (price)(quantity)

$= (\$59.95)(30)$

$= \$1,798.50$

This answer makes sense because it is close to the approximate answer of ($60)(30) = $1,800.

2. A family spent $58.55, $68.04, and $78.82 weekly for groceries. Calculate their average weekly spending for groceries.

Unknown:
average weekly spending

Given:
weekly groceries spending
$58.55, $68.04, and $78.82

Solution:
total spending $58.55 + $68.04 + $78.82 = $205.41

average weekly spending $= \frac{\text{total spending}}{\text{number of weeks}}$

$= \frac{\$205.41}{3} = \$68.47$

This answer makes sense because
the approximate answer of (3)($70) = $210 is close to $205.41.

3. John earned $164 per week for 11 weeks. Bill earned $139 per week for 13 weeks. What is the difference in their total earnings?

Unknown:
earnings difference

Given:
John = $164 per week
for 11 weeks

Bill = $139 per week
for 13 weeks

Solution:

earnings = (weekly rate)(number of weeks)
John ($164)(11) = $1,804
Bill ($139)(13) = $1,807

earnings difference Bill - John

$= \$1,807 - \$1,804$

$= \$3$

This answer makes sense because the earnings difference should be small as John earned more per week while Bill worked for more weeks.