Name: Answers Period: _____

Chapter 3 Assessment: Accelerated Math 6

Solve each problem, showing all your work. Write answer statements for all word problems!

1) Roberta buys a sweater, a scarf, and a pair of gloves. The sweater costs $24.79, the scarf costs $8.89, and the gloves cost $15.

5 pts Part A: What is the total cost of the three items?

$24.79
8.89
+15.00
$48.68

The cost of the 3 items is $48.68.

5 pts Part B: Roberta has a $50 gift card. How much is left on the card after she pays for these items?

$50.00
−48.68
$1.32 is left on the giftcard.

4 pts 2) Greg found $0.72 on the floorboard of his car. Select all of the expressions that are equivalent to 0.72.

Each ✓ 1 pt

- ✓ 0.92 − 0.2
- ___ 0.82 − 0.01
- ✓ 0.9 − 0.18
- ✓ 0.3 + 0.42
- ✓ 0.05 + 0.67

.92 − .20 = .72

.82 − .01 = .81

.30 + .42 = .72

.90 − .18 = .72

.05 + .67 = .72

5pts 3) LaToya's mother uses 5.84 pounds of apples to make applesauce. She got them from a bag of apples that weighs 16.3 pounds. How many pounds of apples are left in the bag?

$$\begin{array}{r} 16.^{1}3^{2}0 \\ -\ 5.84 \\ \hline 10.46 \end{array}$$

10.46 pounds of apples are left.

3pts Each ✓ 1pt 4) The table shows the cost of several items. Suzanne needs to buy school supplies. She has $5.25 to spend. Select all of the items that Suzanne can buy.

✓ 3 notebooks
____ 4 pens
✓ 4 markers
✓ 6 pencils
____ 3 markers and 2 pens

Item	Cost ($)
Pencil	0.75
Notebook	1.50
Marker	1.05
Pen	1.55

$$\begin{array}{r} 1.55 \\ \times\ 4 \\ \hline 6.20 \end{array}$$

$$\begin{array}{r} 1.05 \\ \times\ 4 \\ \hline 4.20 \end{array}$$

$$\begin{array}{r} .75 \\ \times\ 6 \\ \hline 4.50 \end{array}$$

$$\begin{array}{r} 1.05 \\ \times\ 3 \\ \hline 3.15 \\ 1.55 \\ 1.55 \\ \hline 6.25 \end{array}$$

10 pts

5) Katrina runs 4.23 miles each **day**. How many miles does she run in **2 weeks**?

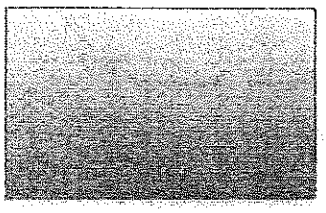
14 days

$$\begin{array}{r} 4.23 \\ \times\ 14 \\ \hline 1692 \\ +4230 \\ \hline 59.22 \end{array}$$

59.22 miles run in 2 weeks.

15 pts

6) Kami bought some material to make a blanket in the shape of a rectangle. The material costs $12.00 **per square yard**. How much did Kami pay for the material?



1.35 yd

2 yd

$$\begin{array}{r} 1.35 \\ \times\ 2 \\ \hline 2.70 \end{array}$$ = area of blanket.

$$\begin{array}{r} \times 12 \\ \hline 54 \\ 270 \\ \hline \end{array}$$

$32.40 paid for the material.

7) A football stadium holds 55,296 people. The seating is divided into 36 sections.

5pts Part A: There is an equal number of seats in each section. How many seats are in each section?

$$36\overline{)55296}$$

1536 seats in each section.

$$\begin{array}{r} 36 \\ \hline 192 \\ -180 \\ \hline 129 \\ 108 \\ \hline 216 \\ -216 \\ \hline 0 \end{array}$$

5pts Part B: The seats in each section are in 32 rows. There is an equal number of seats in each row. How many seats are in each row?

$$32\overline{)1536}$$

48 seats in each row.

$$\begin{array}{r} 128 \\ \hline 256 \\ -256 \\ \hline 0 \end{array}$$

5pts 8) A garden is 32.5 feet wide and 68.1 feet long.
Part A: **About** how many square feet is the garden?

32.5 → 30
68.1 → ×70
About 2100 square feet is the area of the garden.

5pts Part B: A 3.8-pound bag of fertilizer covers 1,000 square feet. Each bag costs $9.95. How many bags are needed to cover the garden?

3 bags will be needed.

5pts Part C: Each bag costs $9.95. How much will it cost to buy the bags of fertilizer?

$9.95 (×3)
$29.85 will be the cost of the fertilizer.

2pts 9) Joshua was experimenting with the division problem 0.72 ÷ 0.8 and noticed that he could create other division problems with the same quotient. Select all of the division problems that have the same quotient.

Each ✓

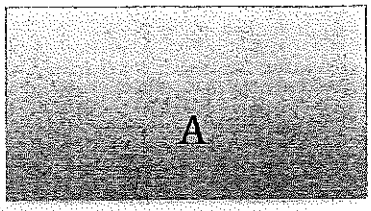
✓ 7.2 ÷ 8
_____ 0.072 ÷ 0.008
✓ 72 ÷ 80

1pt

8)7.2 → .9, 72, 0
.008).072 → 9, 8)72
80)72.0 → .9, −720, 0

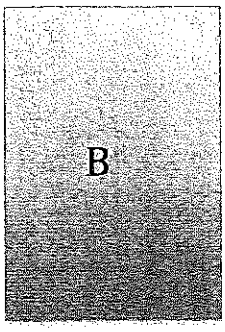
15 pts

10) The two rectangles have the **same area**. What is the **perimeter** of rectangle A?



?

7.54 ft



7.54
× 3.2
1508
22620
24.128 ft²
area of B

add all sides of Rectangle A to find perimeter

6.4 ft

3.77 ft

3.2 ft

6.4 | 24.128
-192
492
448
448
-448
0

3.77
3.77
6.40
+6.40
20.34 ft is the perimeter of Rectangle A.

10 pts

11) Thomas buys a case of bottled water. A case contains 36 bottles of water and costs $4.69. Thomas will sell each bottle of water for $0.75 at a school event. How much profit, in dollars, will Thomas earn if he sells all the bottles of water?

$0.75
× 36
450
2250
27.00

How much he made from selling all water

$27.00
- 4.69
$22.31 will be his profit