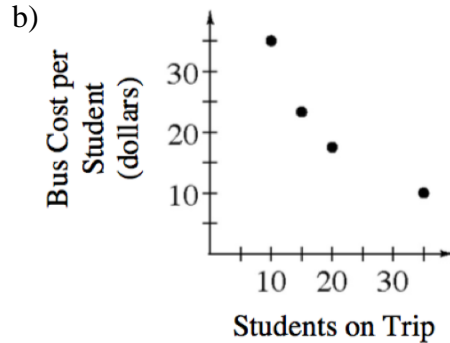


**Pre-Algebra Set 16 Answers** version 1.0

1. a)

Number of Students on the Trip	Bus Cost per Student (\$)
10	\$35
15	\$23.33
20	\$17.50
35	\$10



c) No, it's not proportional. *Explain why.*

2. a) Distributive      b) Associative      c) Commutative      d) Commutative

3. a) 60 bricks      b) 6 feet, 8 inches (or  $6\frac{2}{3}$  feet)

4. The graph is not proportional. *Tell why.*

5. 60%

6.

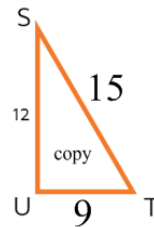
$0.12 \triangle \frac{2}{100} = \frac{1}{50}$	$\frac{3}{10} \triangle 30\%$	$0.4 \triangle 40\%$	$22.\bar{2}\% \triangle 0.\bar{2}$	$1.09 \triangle 1\frac{9}{100}$
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7. a) See table at right. →

b) Yes, the relationship is proportional. *Explain why.*

# of Lemonades	Price (\$)
1	<b>1.80</b>
2	3.60
3	<b>5.40</b>
4	<b>7.20</b>
5	<b>9.00</b>
6	<b>10.80</b>
7	<b>12.60</b>
8	<b>14.40</b>

8. a)  $\frac{12}{8}$  or  $\frac{3}{2}$       b) →



9. a) 51 *Why?*      b) 17      c) 12.5      d) 41

10. a) 8      b) 17      c)  $6\frac{7}{15}$   
 d) -375      e) -1100      f) -10

11. a)  $1\frac{5}{16}$       b)  $2\frac{7}{10}$       d)  $\frac{10}{27}$       f)  $238\frac{11}{24}$

11. [instead of 12 ☹]      a) -9.8      b) 380      c) 1.099      d) 31.25

13. a)  $106 \text{ m}^2$       b)  $60 \text{ cm}^2$

