1. Sample answer: Percent is a ratio that compares a quantity to 100.
2. The value is greater than the original value; The value is less than one one-hundredth of the original value.
3. No; Sample answer: Finding $25 \%$ of a number is the same as multiplying that number by $\frac{1}{4}$, not dividing it by $\frac{1}{4}$.
4. 100 ounces
5. a. 377.6
b. 7.084
c. $1,107.6$
d. 680.8
6. $\frac{2.02}{18.02} \approx 0.112$

$$
0.112=\frac{11.2}{100}=11.2 \%
$$

7. $\frac{x}{60} \cdot 60=\frac{80}{100} \cdot 60$

4,800
48
8. $\frac{x}{20} \cdot 20=\frac{20}{100} \cdot 20$ 400
4
13. Greater than 10 but less than 100; Sample answer: $100 \%$ of 5 is 5 , so $700 \%$ of 5 is 7 times $100 \%$, or 35 .
14. Greater than 100 but less than 150 ; Sample answer: I added 44 (100\%), 44 (100\%), and 22 (50\%).
15. About 4.8 ounces to 5.6 ounces.
16.58 .5 mg
17. 17,$000 ; \frac{0.9}{100}=\frac{153}{n}$
18. No; Sample answer: If the first number is 100 , the second number is $1.25 \times 100=125.100 \div 125=$ 0.8 , so 100 is $80 \%$ of 125 , not $75 \%$.
19. Mark earns more money. Sample answer: Mark earns $\$ 960$ for 40 hours and then $\$ 720$ for 20 hours of overtime, which is $\$ 1,680$ total. Joe makes $5 \%$ of $\$ 21,000$, or 0.05 x 21,000 , which is $\$ 1,050$.
20. Pamela earns more money. Sample: Pamela earns $\$ 800$ for 40 hours. John earns $\$ 715$ for 11 pupils.
21. C
9. a. part
b. percent
10. a. $\$ 288$
b. $\$ 14,976$
11. $\$ 45.60$
12. $\$ 1.60 ; \$ 41.60$

