Check What You Learned

Ratios, Rates, and Percents

Solve each proportion.

	a	**b**	**c**
1.	$\frac{\square}{12} = \frac{5}{4}$ _____	$\frac{18}{16} = \frac{\square}{24}$ _____	$\frac{2}{\square} = \frac{10}{15}$ _____
2.	$\frac{15}{21} = \frac{\square}{7}$ _____	$\frac{\square}{8} = \frac{18}{24}$ _____	$\frac{10}{14} = \frac{15}{\square}$ _____
3.	$\frac{5}{\square} = \frac{20}{24}$ _____	$\frac{4}{7} = \frac{\square}{28}$ _____	$\frac{8}{6} = \frac{20}{\square}$ _____
4.	$\frac{\square}{10} = \frac{21}{15}$ _____	$\frac{15}{\square} = \frac{20}{12}$ _____	$\frac{3}{12} = \frac{\square}{16}$ _____

Write the equivalent decimal and fraction for each percent.

		a	**b**		**c**	**d**
	Percent	Decimal	Fraction	Percent	Decimal	Fraction
5.	24%	_____	_____	110%	_____	_____
6.	37%	_____	_____	55%	_____	_____
7.	6%	_____	_____	235%	_____	_____

For each fraction or decimal, write the equivalent percent.

	a	**b**	**c**
8.	$\frac{4}{25} =$ _____	$0.05 =$ _____	$\frac{3}{5} =$ _____
9.	$0.8 =$ _____	$\frac{7}{8} =$ _____	$1.3 =$ _____

Complete each sentence.

	a	**b**
10.	24 is 30% of _____.	42 is _____% of 50.
11.	20% of 75 is _____.	112 is 70% of _____.
12.	6.2 is _____% of 124.	32% of 85 is _____.
13.	9 is 12.5% of _____.	7 is _____% of 56.
14.	125% of 48 is _____.	5.5 is 125% of _____.

CHAPTER 3 POSTTEST

Check What You Learned

Ratios, Rates, and Percents

Solve each problem.

15. Jeans are $20 for 2 pairs. Kerry spent $40 on jeans. How many pairs did she buy?

Kerry bought _____ pairs of jeans.

15.

16. Skirts are 4 for $30. Marta and her sisters bought 6 skirts. How much did they pay?

They paid _____.

16.

17. Sweaters are 3 for $50. Leslie and her mother spent $100 on sweaters. How many did they buy?

They bought _____ sweaters.

17.

18. T-shirts are 3 for $18. Tia bought 4 T-shirts. How much did she spend?

Tia spent _____.

18.

19. In Keon's homeroom class, $\frac{3}{5}$ of the students participate in sports. What percent of students participate in sports?

_____ participate in sports.

19.

20. Fifty-five percent of the students at West Side Middle School walk to school. What fraction of the students walk to school?

_____ of the students walk to school.

20.

21. A new car that costs $17,500 loses 25% of its value in the first year. How much is the loss of value?

The loss of value is _____.

21.

22. The 140-member chorus at West Side Middle School wants to add 30 percent more members next year. How many members do they want to add?

They want to add _____ members.

22.