

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

### CHAPTER 7 TEST

**For problems 1 – 4, multiply the decimals.**

1) 
$$\begin{array}{r} 0.45 \\ \times 0.6 \\ \hline \end{array}$$

2) 
$$\begin{array}{r} 1.37 \\ \times 0.3 \\ \hline \end{array}$$

3) 
$$\begin{array}{r} 2.7 \\ \times 1.6 \\ \hline \end{array}$$

4) 
$$\begin{array}{r} 0.028 \\ \times 1.02 \\ \hline \end{array}$$

**For problems 5 – 8, cross multiply to see if the fractions are equal.**

5)  $\frac{1}{3} = \frac{8}{24}$

6)  $\frac{3}{4} = \frac{6}{9}$

7)  $\frac{11}{12} = \frac{22}{24}$

8)  $\frac{3}{5} = \frac{15}{25}$

**For problems 9 – 12, find the missing number by cross multiplying. Your answers will be integers (whole numbers.)**

9)  $\frac{1}{2} = \frac{8}{y}$

10)  $\frac{3}{4} = \frac{x}{16}$

11)  $\frac{3}{13} = \frac{6}{t}$

12)  $\frac{3}{7} = \frac{x}{21}$

**For problems 13 – 16, find the missing number by cross multiplying. Your answers will have fractions/decimals.**

13)  $\frac{2}{5} = \frac{7}{a}$

14)  $\frac{3}{b} = \frac{10}{12}$

15)  $\frac{c}{4} = \frac{7}{10}$

16)  $\frac{5}{6} = \frac{9}{z}$

**For problems 17 – 20, use the percent equation to solve.**

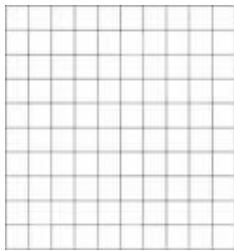
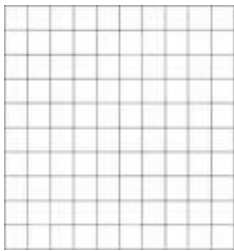
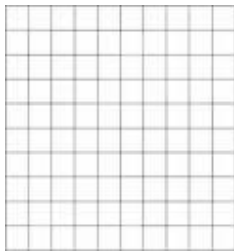
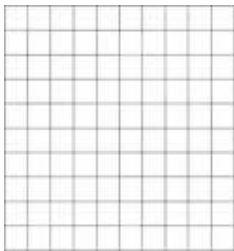
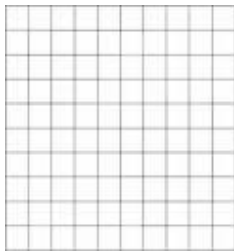
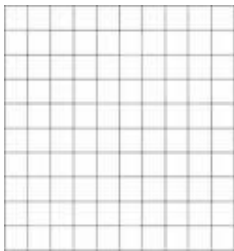
17) What is the percent equation?

18) 15 is what % of 90?

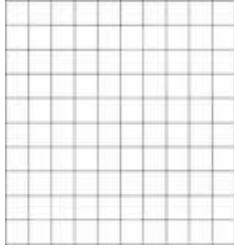
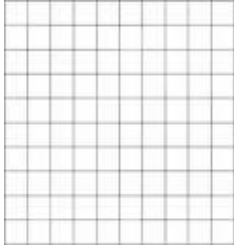
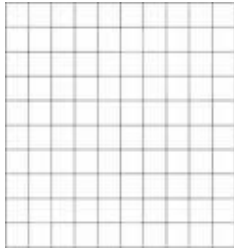
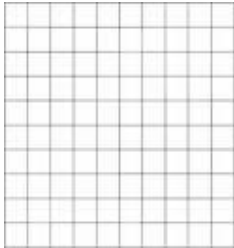
19) What is 70% of 60?

20) 40 is 10 % of what?

**For problems 21 – 25, fill in table.**

	Percent	Fraction	Decimal	Square Model	
21)	79 %				
22)		$\frac{14}{100}$			
23)		$1\frac{3}{100}$			

For problems 21 – 25, fill in table.

Percent	Fraction	Decimal	Square Model	
24)		1.17		
25)				

8 %

**BONUS QUESTIONS:**

$$\begin{array}{r} 16 \\ \times 1.3 \\ \hline \end{array}$$

$$\begin{array}{r} 0.056 \\ \times 2.6 \\ \hline \end{array}$$

Name ANSWER KEY Period \_\_\_\_\_ Date \_\_\_\_\_

### CHAPTER 7 TEST

For problems 1 – 4, multiply the decimals.

$$\begin{array}{r} 1) \quad 0.45 \\ \times 0.6 \\ \hline 0.27 \end{array}$$

$$\begin{array}{r} 2) \quad 1.37 \\ \times 0.3 \\ \hline 0.411 \end{array}$$

$$\begin{array}{r} 3) \quad 2.7 \\ \times 1.6 \\ \hline 4.32 \end{array}$$

$$\begin{array}{r} 4) \quad 0.028 \\ \times 1.02 \\ \hline 0.02856 \end{array}$$

For problems 5 – 8, cross multiply to see if the fractions are equal.

$$5) \quad \frac{1}{3} \quad \frac{8}{24}$$

$$6) \quad \frac{3}{4} \quad \frac{6}{9}$$

$$7) \quad \frac{11}{12} \quad \frac{22}{24}$$

$$8) \quad \frac{3}{5} \quad \frac{15}{25}$$

$$\begin{array}{l} 1 \times 24 \quad 3 \times 8 \\ 24 \quad 24 \end{array}$$

$$\begin{array}{l} 3 \times 9 \quad 4 \times 6 \\ 27 \quad 24 \end{array}$$

$$\begin{array}{l} 11 \times 24 \quad 12 \times 22 \\ 264 \quad 264 \end{array}$$

$$\begin{array}{l} 3 \times 25 \quad 5 \times 15 \\ 75 \quad 75 \end{array}$$

**Equal**

**Not Equal**

**Equal**

**Equal**

For problems 9 – 12, find the missing number by cross multiplying. Your answers will be integers (whole numbers.)

$$9) \quad \frac{1}{2} = \frac{8}{y}$$

$$10) \quad \frac{3}{4} = \frac{x}{16}$$

$$11) \quad \frac{3}{13} = \frac{6}{t}$$

$$12) \quad \frac{3}{7} = \frac{x}{21}$$

**16**

**12**

**26**

**9**

For problems 13 – 16, find the missing number by cross multiplying. Your answers will have fractions/decimals.

$$13) \quad \frac{2}{5} = \frac{7}{a}$$

$$14) \quad \frac{3}{b} = \frac{10}{12}$$

$$15) \quad \frac{c}{4} = \frac{7}{10}$$

$$16) \quad \frac{5}{6} = \frac{9}{z}$$

**17.5 or 17 1/2**

**3.6 or 3 3/5**

**2.8 or 2 4/5**

**10.8 or 10 4/5**

For problems 17 – 20, use the percent equation to solve.

17) What is the percent equation?

$$\frac{a}{b} = \frac{p}{100}$$

18) 15 is what % of 90?

$$\frac{15}{90} = \frac{p}{100}$$

$$16\frac{2}{3} = p$$

$$16.67 = p$$

19) What is 70% of 60?

$$\frac{a}{60} = \frac{70}{100}$$

$$a = 42$$

20) 40 is 10 % of what?

$$\frac{40}{b} = \frac{10}{100}$$

$$b = 400$$

For problems 21 – 25, fill in table.

	Percent	Fraction	Decimal	Square Model	
21)	79 %	$\frac{79}{100}$	0.79		
22)	14%	$\frac{14}{100}$	0.14		
23)	103%	$1\frac{3}{100}$	1.03		

For problems 21 – 25, fill in table.

	Percent	Fraction	Decimal	Square Model
24)	117%	$\frac{117}{100}$	1.17	
25)	8 %	$\frac{8}{100}$	0.08	

**BONUS QUESTIONS:**

$$\begin{array}{r} 16 \\ \times 1.3 \\ \hline 20.8 \end{array}$$

$$\begin{array}{r} 0.056 \\ \times 2.6 \\ \hline 0.1456 \end{array}$$