

## Is It Equivalent?

## 7.1B Equivalency

Circle the numbers in each column that are equivalent to the numbers at the top of the column. Explain each choice using mathematics.



A.  $0.4$   $20\% \frac{2}{5} = \frac{4}{5} = 0.4$

B.  $\frac{4}{10} = \frac{40}{100} = 40\%$

C.  $40\%$

~~D.  $0.25 = \frac{25}{100} = \frac{1}{4}$~~

\* a look-a-like

~~E.  $4\% = \frac{4}{100} = \frac{1}{25}$~~

~~F.  $2.5$  two wholes +~~

~~$\frac{1}{2}$  a half~~

G.  $\frac{20}{50} = \frac{2}{5}$

20.4%

A.  $0.204$   $\frac{20.4}{100} = 20.4\%$

B.  $20\frac{2}{5}\%$   $20.4\%$

C.  $\frac{204}{1000}$

~~D.  $2.04$~~

more than 2 wholes

~~E.  $2.04\%$~~

F.  $20\frac{4}{10}\%$   $20.4\%$

G.  $\frac{20.4}{100} \% \text{ means out of } 100!$

### Percent Proportions

Use the information in the problems below to solve for the missing information. Be sure to show all of your work.

1. In Fort Bend City, 300 people attend the annual town carnival. This was 40% of the entire town population. What is the entire town's population?

$$\textcircled{1} \frac{300}{x} = \frac{40\%}{100}$$

$$\textcircled{2} 40x = 300 \cdot 100$$

$$\frac{40x}{40} = \frac{30000}{40}$$

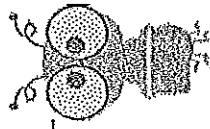
$$\begin{array}{r} 750 \\ -280 \\ \hline 2000 \end{array}$$

$$\begin{array}{r} x = 750 \\ -200 \\ \hline 2000 \end{array}$$

2. Joy got 56 questions correct of a test, which gave her a score of 70%. How many questions were on the test?
3. At the recent talent show, 105 out of 500 students performed. What percent of students performed at the talent show?
4. At the basketball game, 14% of the 200 students attending wore school jackets. How many students wore school jackets?
5. On the mathematics pretest, 80% of the eighth grade students passed on the first try. If 250 students took the pretest, how many students passed on the first try?
6. In a recent election, 132 students voted for Lynda for student council secretary. If a total of 220 students voted in the election, what percent of the students voted for Lynda?

Name \_\_\_\_\_

Date \_\_\_\_\_



# Percent Picnic Colors

Solve each problem. Find your answer in one of the three answer boxes. Use the problem number and the color associated with the correct answer to color in the next page.

	ANSWER 1	ANSWER 2	ANSWER 3
What is the percent?			
1	48% ORANGE	52% YELLOW	12% RED
2	60% LIGHT BLUE	12% LEAVE WHITE	40% DARK BLUE
3	45% BLACK	10% DARK BROWN	90% LIGHT BROWN
4	20% DARK GREEN	12% YELLOW	80% LIGHT GREEN
5	14% GREEN	875% PINK	125% RED
Percent of a number			
6	40 GREEN	30 BLUE	10 ORANGE
7	\$105 BROWN	\$195 TAN	\$265 PEACH
8	15 BLACK	10 BLUE	19 BROWN
9	51 PURPLE	9 BLUE	35 GREEN
10	\$13.50 GREEN	\$15 ORANGE	\$31.50 PINK