

**Math 7 Test**  
**SOL 7.1c—Fractions, Decimals, & Percents**

**Name:** \_\_\_\_\_

**Fill in the blank. All fractions should be expressed in lowest terms.**

Work Space

- 1) \_\_\_\_\_ is equivalent to  $\frac{9}{25}$ . (percent)
- 2) Four percent is equivalent to \_\_\_\_\_. (fraction)
- 3) Three-eighths is equivalent to \_\_\_\_\_. (decimal)
- 4) \_\_\_\_\_ is equivalent to 24%. (fraction)
- 5) \_\_\_\_\_ is equivalent to  $7\frac{1}{2}$ %. (decimal)

**Express each amount of money as a fraction of a dollar in lowest terms.**

6. eight pennies \_\_\_\_\_
7. four dimes and a nickel \_\_\_\_\_
8. three quarters and five pennies \_\_\_\_\_
9. two quarters and three nickels \_\_\_\_\_

10.  \_\_\_\_\_

11. Complete the table below and round answers to the nearest hundredth.  
 Show all work in the space to the right of the table.

Work Space

Fraction	Decimal	Percent
$\frac{1}{8}$		
	0.06	
		36%
$\frac{3}{5}$		
	0.85	
		55%

**Select the best answer for each. Show all work. Place answers in blanks.**

- \_\_\_\_\_ 12. Which list of numbers is in order from least to greatest?
- A. 124.796, 124.79, 124.706, 124.096
  - B. 124.096, 124.706, 124.796, 124.79
  - C. 124.096, 124.706, 124.79, 124.796
  - D. 124.096, 124.79, 124.706, 124.796

Populations

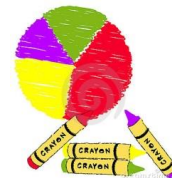
Country	Portion of Population Under Age 15
Chad	47.8%
United States	$\frac{1}{5}$
Uganda	$\frac{1}{2}$
Benin	$\frac{23}{50}$
Ethiopia	47.3%

- \_\_\_\_\_ 13. The table at the right shows several countries and the portion of their population that is under age 15. Which of the following lists the countries in order from least to greatest portion of the population under age 15?
- A. United States, Ethiopia, Benin, Chad, Uganda
  - B. Uganda, United States, Benin, Ethiopia, Chad
  - C. United States, Benin, Ethiopia, Chad, Uganda
  - D. Uganda, Chad, Ethiopia, Benin, United States

- \_\_\_\_\_ 14. The decimal 1.026 is equal to which of these?
- A. 103%
  - B. 102.6%
  - C. 10.26%
  - D. 1.026%

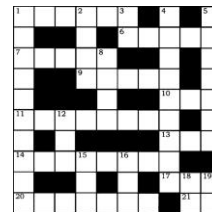
Work Space

- \_\_\_\_\_ 15. Latoya is making a circle graph as part of a report. If the parts of the graph are in percents, what number should she get when she adds all of the parts?
- A. 50%
  - B. 1%
  - C. 100%
  - D. 10%



- \_\_\_\_\_ 16. Which of the following is equal to 150%?
- A. 15
  - B.  $\frac{15}{100}$
  - C. 1.5%
  - D.  $\frac{3}{2}$

- \_\_\_\_\_ 17. Jennifer completed  $\frac{7}{12}$  of a crossword puzzle. Liz completed  $\frac{1}{2}$  of an identical puzzle. Karen completed  $\frac{3}{5}$  of the same puzzle. Which girl completed more of the puzzle?



- A. Liz
- B. Jennifer
- C. Karen
- D. They all three completed the same amount.

- \_\_\_\_\_ 18. In a seventh grade class, fifteen of the students use # 2 pencils. The other five students prefer # 3 pencils. What part of the students use # 3 pencils?
- A.  $\frac{1}{4}$  or 25%
  - B.  $\frac{1}{3}$  or 33%
  - C.  $\frac{1}{2}$  or 50%
  - D.  $\frac{3}{4}$  or 75%

- \_\_\_\_\_ 19. Which sentence is true?
- A.  $\frac{41}{48} < \frac{7}{8}$
  - B.  $\frac{41}{48} = \frac{7}{8}$
  - C.  $\frac{41}{48} > \frac{7}{8}$
  - D.  $\frac{7}{8} < \frac{41}{48}$

\_\_\_\_\_ 20. Which percent is equal to  $\frac{5}{4}$ ?  
 A. 80%                      B. 1.25%                      C. 125%                      D. 12.5%

\_\_\_\_\_ 21. During one week Morris spent  $4\frac{7}{10}$  hours doing homework, Elise spent  $4\frac{2}{3}$  hours, and Shelley spent  $4\frac{4}{5}$  hours. Which is a list of students in order from least time to most time spent on homework?



- A. Elise, Morris, Shelley                      B. Shelley, Morris, Elise  
 C. Elise, Shelley, Morris                      D. Shelley, Elise, Morris

\_\_\_\_\_ 22. If  $0.3 < x < 35\%$ , which of the following could be the value of  $x$ ?  
 A.  $\frac{1}{4}$                       B.  $\frac{1}{3}$                       C.  $\frac{1}{2}$                       D. 1

\_\_\_\_\_ 23. Charles needed a wrench to fix his bicycle. A  $\frac{5}{8}$  inch wrench was too big, and a  $\frac{1}{4}$  inch wrench was too small. Which of the following wrench sizes would be bigger than the  $\frac{1}{4}$  inch wrench and smaller than the  $\frac{5}{8}$  inch wrench?



- A.  $\frac{1}{8}$  inch                      B.  $\frac{1}{2}$  inch                      C.  $\frac{2}{3}$  inch                      D.  $\frac{4}{5}$  inch

\_\_\_\_\_ 24. A measurement in centimeters has a possible error of 0.5%. What is this possible error written as a decimal?  
 A. 0.0005 cm.                      B. 0.05 cm.                      C. 0.5 cm.                      D. 0.005 cm.

\_\_\_\_\_ 25. Which of the following is *not* true?  
 A.  $\frac{2}{5} = 0.4 = 40\%$                       B.  $2\frac{1}{2} = 2.5 = 25\%$   
 C.  $\frac{7}{10} = 0.7 = 70\%$                       D.  $3\frac{3}{8} = 3.375 = 337.5\%$

**Math SOL 7.1c—Fractions, Decimals, & Fractions  
Answer Key**

1. 36%
2.  $\frac{1}{25}$
3. 0.375
4.  $\frac{6}{25}$
5. 0.075
6.  $\frac{2}{25}$
7.  $\frac{9}{20}$
8.  $\frac{4}{5}$
9.  $\frac{13}{20}$
10.  $\frac{31}{100}$

11.

Fraction	Decimal	Percent
$\frac{1}{8}$	0.125	12.5%
$\frac{3}{50}$	0.06	6%
$\frac{9}{25}$	0.36	36%
$\frac{3}{5}$	0.6	60%
$\frac{17}{20}$	0.85	85%
$\frac{11}{20}$	0.55	55%

12. C
13. C
14. B
15. C
16. D
17. C
18. A
19. A
20. C
21. A
22. B
23. B
24. D
25. B